Dr. Ambedkar Institute of Techonolgy Department of Mechanical Engineering

The documents enclosed are verified and approved.

HOD

Dept. of Mechanical Engineering

Department of Mechanical Engineering Dr. Ambedkar Institute of Technology Bengaluru - 560 056.

Department of Mechanical Engineering

	Dr. Ambedkar Institute of Technology, Bangalore - 560056							
	Internship	Undergone Status of 7th Se	Undergone Status of 7th Sem Students		Dr.AIT/Dean(A)/967/2021-22			
Sl No.	USN	Name of the Student	Title	D	ate	Name of the Industry/Company/	Part Time/Full	Online/O
211(0)	0.21	1 (4.1.0 01 (4.1.0 00000110	2200	From	То	Organization	Time	ffline
1	1DA18ME082	PRAJWAL P	PISTON AND PISTON RINGS	13/09/2021	12/10/2021	FEDERAL MOGUL GOETZE INDIA Ltd.	FULL TIME	OFFLINE
2	1DA18ME011	AMITH R S	PISTON AND PISTON RINGS	13/09/2021	12/10/2021	FEDERAL MOGUL GOETZE INDIA Ltd.	FULL TIME	OFFLINE
3	1DA18ME010	AKSHITH KUMAR K N	HVAC DESIGN	9/8/2021	13/09/2021	prinston smart Engineers	FULL TIME	ONLINE
4	1DA19ME430	VIMALA S	ARDC (Aircraft research and design centre)	8/9/2021	6/10/2021	Hindustan aeronautics limited	FULL TIME	OFFLINE
5	1DA18ME029	DAWOOD MUZAWAR	PYTHON WITH MACHINELEARNING	1/9/2021	30/09/2021	KARUNADU TECHNOLOGIES PVt LTD	FULL TIME	ONLINE
6	1DA19ME407	CHARAN.C	Precision components milling and jig boring work	3/9/2021	4/10/2021	V.L.I INDUSTRIES	FULL TIME	OFFLINE
7	1DA18ME105	Salil Deshpande	CNC Programming and Machining	10/7/2021	10/8/2021	Government Tool Room and Training Center-GTTC	FULL TIME	OFFLINE
8	1DA18ME056	MADHU C	HVAC DESIGN	9/8/2021	13/09/2021	prinston smart engineers	FULL TIME	ONLINE
9	1DA18ME106	SANJAY H P	PISTON AND PISTON RINGS	13/09/2021	12/10/2021	FEDERAL MOGUL GOETZE INDIA Ltd.		OFFLINE
10	1DA18ME053	KISHORE N	HVAC DESIGN	9/12/2021	13/01/2022	PRINSTON SMART ENGINEERS	FULL TIME	ONLINE
11	1DA19ME429	UMESH	SOLID WORKS	2/9/2021	24/09/2021	GTTC	FULL TIME	OFFLINE
12	1DA18ME118	SIDDARTH	FOUNDRY AND FORGEING	20/09/2021	19/10/2021	HAL BANGALORE	FULL TIME	OFFLINE

Sl No.	LICNI	USN Name of the Student	Title	D	ate	Name of the Industry/Company/	Part Time/Full	Online/O
51110.	USIN	Name of the Student	Title	From	То	Organization	Time	ffline
14	1DA19ME405	C CHETHAN	SOLID WORKS	2/9/2021	24/09/2021	GTTC	FULL TIME	OFFLINE
15	1DA19ME427	SUDHINDRA KS	TECHNICIAN & FLOOR PLANNER	24/08/2021	25/09/2021	INTERNATIONAL TRADING	FULL TIME	OFFLINE
16	1DA18ME130	TEJAS BH	FOUNDRY AND FORGEING	20/09/2021	19/10/2021	HAL BANGALORE	FULL TIME	OFFLINE
17	1DA18ME079	Pavan R	Electric vehicle Technology	16/08/2021	11/9/2021	technologies Pvt limited	FULL TIME	ONLINE
18	1DA18ME092	Rajath J M	Electric Vehicle Technology	16/08/2021	11/9/2021	Technologies Pvt Limited	FULL TIME	ONLINE
19	1DA18ME043	HARSHITH KUMAR	CNC OPERATIONS AND PROGRAMMING	23/08/2021	17/09/2021	VTU-NASD	FULL TIME	ONLINE
20	1DA18ME132	THULASI RAM T R	FOUNDRY AND FORGE DIVISION	20/09/2021	19/10/2021	HAL BANGALORE	FULL TIME	OFFLINE
21	1DA18ME090	RAGHU.V.T	Electric Vehicle Technology	16/06/2021	13/07/2021	Skill Dzire	FULL TIME	ONLINE
22	1DA18ME074	NITHIN N	Fabrication and quality check	1/9/2021	29/09/2021	Sri Raghavendra Industries	FULL TIME	OFFLINE
23	1DA18ME075	PAVAN	Electric vehicle Technology	30/08/2021	25/09/2021	Technologies Pvt limited	FULL TIME	ONLINE
24	1DA19ME425	SHASHANK A	HVAC DESIGN	9/8/2021	13/09/2021	PRINSTON SMART ENGINEERS	FULL TIME	ONLINE
25	1DA18ME116	SHREYASRAJURK	Pedestal 575 cutting tools and Tool life measurements	1/9/2021	30/09/2021	Cast Craft Pvt Ltd	FULL TIME	OFFLINE
26	1DA18ME014	Anmol N	Production and quality engineer	27/09/2021	27/10/2021	Incresol Engineering Solutions pvt Ltd	Full time	OFFLINE
27	1DA18ME003	Abhishek M Veeraghantimath	Robotics	1/6/2019	31/07/2019	Verzeo EduTech	fFULL TIME	ONLINE
28	1DA19ME434	YOGESH N	INTERNSHIP TRAINEE STUDENT	6/9/2021	3/10/2021	VLI INDUSTERIES PVT LTD	FULL TIME	OFFLINE
29	1DA18ME080	PRAJWAL	Electric Vehicle Technology	29/08/2021	25/09/2021	Technology Pvt limited	FULL TIME	ONLINE

Sl No.	LIGN	USN Name of the Student	Title	D	ate	Name of the Industry/Company/	Part Time/Full	Online/O
SI NO.	USIN	Name of the Student	Title	From	То	Organization	Time	ffline
31	1DA18ME127	SUNIL N S	Pedestal 575 cutting tools and Tool life measurements	1/9/2021	30/09/2021	Cast Craft Pvt Ltd	FULL TIME	OFFLINE
32	1DA18ME115	SHIVASHANKAR T C	Sheet metal operations and Solid Works	1/9/2021	30/09/2021	Networth System Pvt Ltd	FULL TIME	OFFLINE
33	1DA19ME409	DhanushGowda K S	product design	13/12/2021	15/01/2022	Skill drive	Full time	ONLINE
34	1DA18ME070	Nikhil Suryan	Aircraft Division	6/10/2021	31/10/2021	Hindustan Aeronautical limited	Full Time	OFFLINE
35	1DA18ME121	Sufiyan Ahmed	Aircraft Division	6/10/2021	31/10/2021	Hindustan Aeronautical limited	Full Time	OFFLINE
36	1DA18ME133	VARSHITHA S	Aircraft research and design centre (ARDC)	8/9/2021	6/10/2021	Hindustan Aeronautical limited	Full time	OFFLINE
37	1DA18ME027	chethan s bashetty	CNC OPERATIONS AND PROGRAMMING	23/08/2021	17/09/2021	VTU-NASD	FULL TIME	Online
38	1DA19ME422	SAGAR B	INTERNSHIP TRAINEE STUDENT	6/9/2021	3/10/2021	VLI INDUSTERIES PVT LTD	FULL TIME	OFFLINE
39	1DA18ME139	VISHAL	MECHANICAL DESIGN	25/08/2021	25/09/2021	ELITE TECHNO GROUPS	FULL TIME	ONLINE
40	1DA18ME050	K HANUMANTHA	Electric Vehicle Technology	14-06-2021	12/7/2021	SkillDZire	Full Time	online
41	1DA19ME424	SANTOSH	Construction Equipment	1/8/2021	31/08/2021	Volvo CE INDIA PVT LTD	Full Time	Offline
42	1DA18ME098	RAVIKANT R PATIL	Electric vehicle technology	14-06-2021	12/7/2021	skill Dzire	Full Time	Online
43	1DA18ME060	MALLIKARJUN	Electric vehicle technology	14-06-2021	12/7/2021	SkillDzire	full time	online
44	1DA18ME095	RAKESH GOUNDI	Electric vehicle technology	16/08/2021	25/09/2021	SkillDzire	Full Time	online
45	1DA19ME408	Charan R N	HVAC Design	9/8/2021	13/09/2021	PRINSTON SMART ENGINEERING	Full time	Online
46	1DA18ME019	Bharath G	Web Development	15-08-2021	15-09-2021	Prinston Smart Engineers	Full time	Online

Sl No.	LICNI	USN Name of the Student	Title	D	ate	Name of the	Part Time/Full	Online/O ffline
SI NO.	USN	Name of the Student	Title	From	То	Industry/Company/ Organization	Time	
47	1DA18ME059	Malagoud Patil	CNC OPERATIONS AND PROGRAMMING	23-08-2021	17-09-2021	VTU-NASD	full time	online
48	1DA18ME101	Rohith Kumar K N	HVAC DESIGN	15/08/2021	20/09/2021	PRINSTON SMART ENGINEERS	Full time	Online
49	1DA18ME001	ABHAY P DEVANGAVI	OF MECHANICAL SYSTEMS	7/6/2021	3/7/2021	DECIBELS LAB PVT LTD	FULL TIME	Offline
50	1DA18ME054	KRISHNA POL	Manufacturing of Railwheel ,Axles and their assembly	1/9/2021	30/09/2021	Rail Wheel factory yalahanka Bangalore	FULL TIME	OFFLINE
51	1DA18ME097	Ravi Kumar B	AutoCAD	15/10/2021	21/11/2021	Intrenshala	Full Time	Online
52	1DA19ME416	NAVEENA M R	aerospace precision components	1/9/2021	30/09/2021	WE3 Solution	FULL TIME	OFFLINE
53	1DA18ME096	Rakshith N	PISTON AND PISTON RINGS	13/09/2021	12/10/2021		Full time	Offline
54	1DA19ME418	Nithish Mithra J	Mechanical automobile workshop worker	2/4/2021	25/05/21	FORTUNE MOTORS	full time	OFFLINE
55	1DA18ME008	Akshay R Hegde	Computer Aided Design	6/9/2021	20/10/21	CADWORKS India	Full time	Online
56	1DA19ME412	MALLIKARJUN BANGARER	CNC PROGRAMMER	6/9/2021	5/10/2021	GTTC, Hanagal	Full time	offline
57	1DA18ME044	Hemanth Kumar H S	AUTOCAD	2/10/2020	16/11/20	INTERNSHALA	FULLTIM E	online
58	1DA18ME046	Indresh Shrinivas Katti	Agricultural UAV Spray Nozzles	8/9/2021	13/10/21	Dynamatic Technologies Limited	Full Time	Offline
59	1DA18ME093	Rajath S	CNC Machine Operations	29/09/2021	29/10/2021	S M Technologies	Full Time	offline
60	1DA18ME069	NANDITHA R	ARDC	8/9/2021	6/10/2021	limited	FULL TIME	OFFLINE
61	1DA18ME100	RESHMA N	ARDC	8/9/2021	6/10/2021	limited	FULL TIME	OFFLINE
62	1DA18ME112	Sharat M Kuchanur	Production of Sucrose	6/9/2021	25/09/2021	Bilagi Sugar Mill limited	Full time	Offline

Sl No.	LICN	USN Name of the Student	Title	D	ate	Name of the Industry/Company/	Part Time/Full	Online/O
51110.	USIN	Name of the Student	Titte	From	То	Organization	Time	ffline
63	1DA18ME111	Shamik Patil	Investment Casting Process	1/9/2021	30/09/2021	Uni Tritech India, Dharwad	Full Time	Offline
64	1DA18ME009	Akshayakumar Vaidya	Custom Engineering Projects Management Insights	1/10/2021	30/10/21	Merck Life Science Pvt Ltd	Full time	Offline
65	1DA19ME415	NAVEENA K S	HVAC DESIGN	9/8/2021	13/09/2021	priston engineers	full time	online
66	1DA19ME428	SYED ANWAAR ASHRAFF	INTERNSHIP TRAINEE STUDENT	6/9/2021	3/10/2021	VLI INDUSTERIES PVT LTD	Full time	offline
67	1DA19ME406	CHANDAN K	Services on engines	27/08/21	26/09/21)	koel care kirloskar service company	Full time	offline
68	1DA18ME077	PAVAN KUMAR SD	Automation Technology	13/09/2021	13/10/2021	Bosch Rexroth Limited	Full time	Online
69	1DA19ME426	S VIGNESH PRABHU	Design and Production intern	26/08/2021	10/10/2021	Mastiebikes Pvt Ltd	Full time	Offline
70	1DA19ME426	SHREYAS R	INTERNSHIPO TRAINEE STUDENT	6/9/2021	3/10/2021	VLI INDUSTRIES PVT LTD	Full time	Offline
71	1DA18ME026	CHETHAN KUMAR N R	CNC OPERATIONS AND PROGRAMMING	23/08/2021	17/09/2021	VTU-NASD	FULL TIME	ONLINE
72	1DA19ME413	MALLIKARJUN K BANAGONDE	CNC PROGRAMMER	6/9/2021	5/10/2021	GTTC, hanagal	Full time	Offline
73	1DA19ME410	KSHITIJ KULKARNI	C AND C++ PROGRAMMING	1/9/2021	16/11/2021	INTERNSHALA	PART TIME	ONLINE
74	1DA18ME002	Abhilash K A	Foundary And Forge	22/09/2021	14/10/2021	Hindustan Aeronautics Limited	Full Time	Offline
75	1DA19ME400	Abdul salam	MANUFACTURING COMPANY	9/9/2021	7/10/2021	INDUSTRIES LTD UNIT-	Full time	offline
76	1DA19ME414	Mohammed Faisal	and jig boring machining works	6/9/2021	4/10/2021	V L I INDUSTRIES	Full time	offline
77	1DA18ME102	S MANJUNATH	Production, Research & Development	3/9/2021	1/10/2021	ITI LIMITED COMPANY	Full time	offline
78	1DA18ME143	YASHWANTH E V	Handling System in Thermal power plant	18/08/2021	17/09/2021	Industrial systems Group, BHEL	Full Time	Offline

Sl No.	HIGNI	USN Name of the Student	Title	D	ate	Name of the Industry/Company/	Part Time/Full	Online/O ffline
SI NO.	USN		Title	From	То	Organization	Time	
79	1DA18ME091	RAJAT S NAVARATHNA	Mechanical Activities in MTRDC	1/9/2021	1/10/2021	Research and Development Center,	Full Time	Offline
80	1DA18ME022	CHANDAN P KESTHUR	Production, Research & Development	3/9/2021	1/10/2021	ITI LIMITED COMPANY	Full time	Offline
81	1DA18ME099	REDDY KUMAR V	PROGRAMMING & OPERATIONS	2/9/2021	30/09/2021	GTTC	Full Time	Offline
82	1DA18ME062	MANOJ K	CATIA V5	2/9/2021	30/09/2021	GTTC	Full Time	Offline
83	1DA18ME081	Prajwal B M	ELECTRIC VEHICLE TECHNOLOGY	14/06/21	12/7/2021	Skilldzire Pvt limited	Full time	Online
84	1DA18ME072	NISHANTH	ELECTRIC VEHICLE TECHNOLOGY	16/08/2021	11/9/2021	TECHNOLOGIES PVT LTD	FULL TIME	ONLINE
85	1DA18ME084	PRAVEENKUMAR R	PROGRAMMING & OPERATIONS	2/9/2021	30/09/2021	GTTC	FULL TIME	Offline
86	1DA18ME100	Reshma N	Aircraft research and design centre (ARDC)	8/9/2021	6/10/2021	Aeronautical limited (HAL)	FULL TIME	Offline
87	1DA18ME048	Jayanth Kumar H K	HVAC DESIGN	9/12/2021	13/01/2022	PRINSTON SMART ENGINEERS	FULL TIME	Online
88	1DA18ME138	VINUTHA KV	FOUNDRY AND FORGING	20/09/2021	19/10/2021	HAL BENGALURU	FULL TIME	OFFLINE
89	1DA19ME421	RUDRESH B	aerospace precision components	1/9/2021	30/09/2021	WE3 Solutions	FULL TIME	Offline
90	1DA18ME144	YATHIN M P	PRODUCT DESIGN	13/12/2021	15/01/2022	SKILL DZIRE	FULL TIME	ONLINE
91	1DA18ME125	SUMANTH	CNC OPERATIONS AND PROGRAMMING	23/08/2021	17/09/2021	VTU-NASD	FULL TIME	ONLINE
92	1DA18ME129	SYED ATEEQUE MOINUDDIN QUADRI	Handling System in Thermal power plant	18/08/2021	17/09/2021	Industrial systems Group, BHEL	FULL TIME	OFFLINE
93	1DA19ME435	YUVARAJACHARI.A	HVAC DESIGN	9/8/2021	13/09/2021	PRINSTON SMART ENGINEERS	FULL TIME	ONLINE
94	1DA18ME131	TEJAS T	CNC OPERATIONS AND PROGRAMMING	13/09/2021	8/10/2021	VTU-NASD	FULL TIME	ONLINE

Sl No.	LICNI	USN Name of the Student	Title	D	ate	Name of the	Part Time/Full	Online/O
SI NO.	USN	Name of the Student	Title	From	То	Industry/Company/ Organization	Time	ffline
95	1DA18ME114	SHIVAKUMAR P K	system for Steam turbine protection	1/9/2021	5/10/2021	REXROTH EXCELLENCE	FULL TIME	OFFLINE
96	1DA17ME056	HARSHITHA V	CNC programming and operations	30/8/2021	29/09/2021	training centre, maddur	FULL TIME	OFFLINE
97	1DA18ME134	VEERESH R	Electric Vehicle	15/07/2021	15/08/2021	Elite Techno Groups	FULL TIME	ONLINE
98	1DA19ME411	kumar Swamy M D	master Cam	2/9/2021	24/02/2021	training centre, banglore	full time	OFFLINE
99	1DA18ME078	PAVAN P	WORM CUTTING AND TURNING	10/9/2021	26/01/2022	BELATHUR INDUSTRIES	FULL TIME	OFFLINE
100	1DA18ME034	Gangadhar Gowda M C	Production,Research & Development	1/9/2021	28/09/2021	ITI LIMITED COMPANY	FULL TIME	OFFLINE
101	1DA18ME020	Biradar Abhishek Bhagwatrao	Production, Research & Development	3/9/2021	1/10/2021	ITI LIMITED COMPANY	FULL TIME	FULL TIME
102	1DA18ME088	Rachappa	Electric vehicle technology	16/08/2021	11/9/2021	Technologies Pvt Limited	FULL TIME	ONLINE
103	1DA18ME066	N N Amogha Rao	HVAC DESIGN	9/8/2021	13/09/2021	PRINSTON SMART ENGINEERS	FULL TIME	ONLINE
104	1DA18ME122	SUHAS A	CNC OPERATIONS AND PROGRAMMING	13/09/2021	8/10/2021	VTU-NASD	FULL TIME	ONLINE
105	1DA19ME423	Sandeepa Gouda	HVAC DESIGN	25/08/2021	24/09/2021	PRINSTON SMART ENGINEERS	FULL TIME	ONLINE
106	1DA18ME057	Mahadev Reddy	HVAC DESIGN	9/8/2021	13/09/2021	PRISTAN SMART ENGINEERS	FULL TIME	ONLINE
107	1DA19ME417	Naveena v	aerospace precision components	1/9/2021	30/9/21	WE3 SOLUTIONS	Full time	off line
108	1DA18ME004	Aditya	14 MW CO-GENERATION POWER PLANT	1/9/2021	30/09/2021	BHALKESHWAR SUGARS LTD	FULL TIME	OFFLINE
109	1DA18ME076	PAVAN J	Automation Technology	13/09/2021	12/10/2021	Bosch Rexroth Limited	FULL TIME	ONLINE
110	1DA18ME005	Ajayshankar A	Internship Trainee Student	27/09/2021	25/10/2021	Global Machines	Full Time	Offline

Sl No.	USN	Name of the Student	Title	D	ate	Name of the Industry/Company/	Part Time/Full	Online/O
51110.				From	То	Organization	Time	ffline
111	1DA18ME140	VISHWANATH ABHISHEK M	OVERVIEW ON ADVANCE DEFENCE SYSTEM NAVY	18/08/2021	17/09/2021	BHARATH ELECTRONICS LIMITED	Full Time	Offline
112	1DA18ME126	SUMANTH K N	CNC OPERATIONS AND PROGRAMMING	23/08/2021	17/09/2021	VTU-NASD	FULL TIME	ONLINE
113	1DA19ME433	Viswanatha N	Quality inspection	1/10/2021	28/10/2021	STANLEY ENGINEERED AND FASTENING	Full time	offline
114	1DA18ME104	Sachin B Talakeri	Telecom defence production and Quality assurance	3/9/2021	1/10/2021	ITL Limited Company	full time	offline
115	1DA18ME110	SATHVIK M PATEL	HVAC DESIGN	1/2/2020	1/3/2020	ENGINEERS	FULL TIME	OFFLINE
116	1DA18ME028	Chirag GS	Mechanical engineering student intern	7/6/2021	31/07/21	NoPo Nanotechnologies	Full time	Offline
117	1DA18ME007	AKHILESH S	CNC MACHINE OPERATE	1/9/2021	30/9/21	perfect electricals	Full time	Offline
118	1DA18ME141	VIVEK G S	BHARATH ELECTRONICS LIMITED	16/08/2021	15/09/2021	NAVAL SYSTEM	FULL TIME	OFFLINE
119	1DA18ME142	YASHRAJ B GOUDAR	BHARATH ELECTRONICS LIMITED	16/08/2021	15/09/2021	NAVAL SYSTEM	FULL TIME	OFFLINE
120	1DA19ME404	Bhaskar.N	Quality inspection	1/10/2021	28/10/2021	STANLEY ENGINEERED AND FASTENING	Full time	offline



भारत हेवी इलेक्ट्रिकल्स लिमिटेड (भारत सरकार का उपक्रम) Bharat Heavy Electricals Limited (A Government of India Undertaking) इण्डस्ट्रियल सिस्टम्स ग्रुप INDUSTRIAL SYSTEMS GROUP

फोन / Phone: 080-2218 4040 फैक्स / Fax: 080-2356 2713 ई-मेल / e-mail: bgeorge@bhel.in मोबाइल/Mobile: 94490 68052 पो.बॉ. नं. 1249, प्रो. सी एन आर राव सर्कल, आईआईएससी पोस्ट, मल्लेश्वरम, बेंगलूर-560 012. भारत P.B. No. 1249, Prof. CNR Rao Circle, IISc Post Malleshwaram, Bengaluru-560012. INDIA

Ref:IS:02:HRD:PT/885/2021-22

Date: 17-09-2021

CERTIFICATE

This is to certify that, MR.YASHWANTH E V (1DA18ME143) who is pursuing his/her studies for the award of B.TECH(MECHANICAL) from DR AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALURU, has successfully completed his / her INTERNSHIP at INDUSTRIAL SYSTEMS GROUP, BHARAT HEAVY ELECTRICALS LIMITED, for a period of 4 WEEK/S from 18-08-2021 To 17-09-2021

PROJECT NAME: CHP and AHP project report.

C. Lanum IT

Chief रिकानोग ए एउन्सिन सर्वे सिन्ति सी.भानुमती, अपर महाप्रबंधक मा.स. C. BANUMATHI, ADDL. GENERAL MANAGER/HR BHEL-ISG, IISC Post, BENGALURU-12

पंजीकृत कार्यालय 'बीएचईएल हाउस' सिरी फोर्ट, नई दिल्ली - 110 049 वेबसाइट : www.bhel.com कॉर्पोरेट पहचान संख्या : L74899DL1964GO1004281

Regd. Office: 'BHEL House', Siri Fort, New Delhi - 110 049
Website: www.bhel.com Corporate Identity Number: L74899DL1964GO1004281



भारत हेवी इलेक्ट्रिकल्स लिमिटेड (भारत सरकार का उपक्रम) Bharat Heavy Electricals Limited (A Government of India Undertaking) इण्डस्ट्रियल सिस्टम्स ग्रुप INDUSTRIAL SYSTEMS GROUP

फोन / Phone: 080-2218 4040 फैक्स / Fax: 080-2356 2713 ई-मेल / e-mail: bgeorge@bhel.in मोबाइल/Mobile: 94490 68052 पो.बॉ. नं. 1249, प्रो. सी एन आर राव सर्कल, आईआईएससी पोस्ट, मल्लेश्वरम, बेंगलूर-560 012. भारत P.B. No. 1249, Prof. CNR Rao Circle, IISc Post Malleshwaram, Bengaluru-560012. INDIA

Ref:IS:02:HRD:PT/885/2021-22

Date: 17-09-2021

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Chief रिकानोग ए एउन्सिन सर्वे सिन्ति सी.भानुमती, अपर महाप्रबंधक मा.स. C. BANUMATHI, ADDL. GENERAL MANAGER/HR BHEL-ISG, IISC Post, BENGALURU-12

पंजीकृत कार्यालय 'बीएचईएल हाउस' सिरी फोर्ट, नई दिल्ली - 110 049 वेबसाइट : www.bhel.com कॉर्पोरेट पहचान संख्या : L74899DL1964GO1004281

Regd. Office: 'BHEL House', Siri Fort, New Delhi - 110 049
Website: www.bhel.com Corporate Identity Number: L74899DL1964GO1004281

ID NO: 1198



Certificate No 13028



Bangalore Plant Dooravaninagar Bangalore-560016

HUMAN RESOURCES - EMPLOYEE DEVELOPMENT CENTRE

Certificate

This is to certify that Mr. Gangadhar Gowda M C

B.E (Mechanical Engineering)

Of

Dr. Ambedkar Institute of Technology - Bangalore has successfully completed

Internship

During the period from 01/09/2021 to 28/09/2021 In the following areas

Telephones Defence Productions, Switching Access Products, Research & Development, Information Technology, Quality Assurance & IOT



Gargodrax Garda M. Signature of the Trainee Date 28/09/2021

witiltd-india.com Email: mined bep@itiltd.co.in

Issuing Authority CMR-Tech /HRED/PR

Chief th मानव संसाधन भारती आई लिमिटेड HELL IVE

Bangaiuiu- 16/बेंगलुरु-16

चिमान अनुसंघान एवं अभिकल्प केन्द्र (ए आर डी सी)

बिमान अनुसंघान एवं अभिकल्प केन्द्र (ए आर डी सी)

AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)

கணுக் ಸಂಕೀರ್ಣ/अभिकल्प कॉम्प्लेक्स/DESIGN COMPLEX

மேமையூன் ಎರೋನಾಟಿಕ್ಸ್ ಲಿಮಿಟಿಡ್

हिन्दुस्तान एरोनॉटिक्स लिमिटेड

HINDUSTAN AERONAUTICS LIMITED



ಮಾರತ್ತ್ ಹಳ್ಳಿ ಹೋಸ್ಟ್, ಬೆಂಗಳೂರು-560037, ಭಾರತ मारतहल्ली पोस्ट, बेंगलूरु-560037, भारत Marathahalli Post, Bengaluru-560037, India ದೂ/दूरभाष/Ph.: 91-80-22324312,22316774 ಫ್ಯಾಕ್ಟ್ /फैक्स/Fax:91-80-22314320

D/ARDC/HR/Proj/Cert/4448/21

06.10.2021

CERTIFICATE

This is to certify that **Ms Reshma N** who is a student of B.E (Mechanical), Dr Ambedkar Institute of Technology, Bengaluru, has undergone **Internship Training** at HAL ARDC, Design Complex, Bengaluru from 08-09-2021 to 06-10-2021 on "**No-Pay-No-Fee-Basis**". She has been punctual, sincere and committed trainee. Her conduct has been Excellent.

The student brings in a lot of energy and enthusiasm in the work, she is structured in her approach and methodical in resolving a problem. She is resourceful and adaptive to working environment.

A COUNCES DEPARTMENT

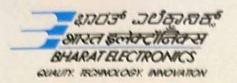
(Prachi Dalvi)

Manager (HR)

ARDC, Design Complex.

ನೋಂದಾಯಿತ ಕಛೇಠಿ : 15/1, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ पंजीकृत कार्यालय : 15/1, कब्बन रोड़, बेंगलूरु - 560 001, भारत Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India

ಸಿ ಐ ಎನ್/ सी आई एन / CIN: L35301KA1963GOI001622





CENTRE FOR LEARNING AND DEVELOPMENT

BHARAT ELECTRONICS LIMITED (A Govt. of India Enterprise, Ministry of Defence) Jalahalli Post, Bengaluru - 560 013, India

Certificate

This is to certify that Sri./Smt/Kum YASHRAJ . B. GOUDAR Ref No. 1410/CLD/HR/2021-22/24/089 student of DR. AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE carried out Project Work/Internship on . OVERVIEW OF MAVAL Systems (SACS) in NS (SACS) SBU/CSG of BEL, Bengaluru from 16th AUGUST 2021 to 15th SEPTEMBER 2021 He/She was regular and punctual in his/her attendance and his/her conduct was satisfactory during the period.

Project / Internship Guide

Date : ।ऽ | १ | २ | २ | Place : Bengaluru อर्ष మత్త కులుమీ విభాగ फाउंड्री व फोर्ज प्रभाग FOUNDRY & FORGE DIVISION బింగులు కంకుల్స్ శేगलूर कॉम्प्लेक्स / BANGALORE COMPLEX టిందున్యాన్ పర్యేణనెటిక్స్ లిమిటిడా हिन्दुस्तान एरोनॉटिक्स लिमिटेड HINDUSTAN AERONAUTICS LIMITED



ಆಂಚೆ बौधूर्ग तंत्रकी 1791, धींगायंत्रकी-560 017,क्वारंथ पोरट बैग सं.1791, बैगाजून - 560 017, मारत Post Bag No.1791, Bengaluru - 560 017, India Ph.: 91 - 80 - 2232 2223 2231 4261

"हिन्दी बढ़ेगी तभी, जब चाहेंगे सभी"

F/HR/G-13 (C)/1400 /2021

19th October, 2021

CERTIFICATE

This is to certify that Ms. Vinutha K V (USN:1DA18ME138) studying B.E (Mechanical Engineering) at Dr. Ambedkar Institute of Technology, Bengaluru has successfully completed her Hybrid Internship training at Foundry & Forge Division, Hindustan Aeronautics Limited, Bangalore Complex from 20th September 2021 to 19th October 2021.

We wish all success in her future endeavors.

(SWAPNA M U) 19 10 2 SENIOR MANAGER (HR)

ಎం యు శ్రవ్మా/एम वू स्वप्न/M.U.SWAPNA అరియ వ్యవస్థాపకరు (ము సం)/विष्ठि प्रबंधक (मा सं)/Senior Manager (HR) ఎఫౌ మెత్తు ఎఫో ఏ ఖాగ/एफ व एफ प्रभाग/F&F Division ఎజి ఎ ఎలో (అ సి)/एच ए एल (बी सी)/HAL (BC) బింగటెంరు/बेंगलूर/BENGALURU-560817

Ms. Vinutha K V, Dr. Ambedkar Institute of Technology, BDA Outer Ring Road, Mallathahalli BENGALURU – 560 056.

ನೋಂದಾಯಿತ ಕಚೇರಿ : ೧೫/೧, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು-೫೬೦೦೦೧, ಭಾರತ

पंजीकृत कार्यालय : 15 /1, कब्बन रोड़, बेंगलूरु - 560 001, भारत

Registered Office: 15 /1, Cubbon Road, Bengaluru - 560 001, India

分型分型 (新: £35301KA1963GOl001622 **E** (ま): i.mohanlal@hal-india.co.in



Programatics and Sensories Programmable Logic Robotics and Advanced PLCs Prosentates Technology Generalizes Mechatronics.

A Bosch Company

Date: 07/11/2021 Ref: SJCIT.BRAC/B2/4

Internship Certificate

This is to certify that Mr. Pavan Kumar SD bearing USN: 1DA18ME077, has completed his four week internship program "Automation Technology (Industrial on Hydraulics, Pneumatics, Sensors and PLC)" during the period from 13th September 2021 to 13th October 2021; for a period of Four weeks.

The internship has been carried out at Regional Center of Competence for Automation Technologies, established at SJC Institute of Technology in collaboration with Bosch Rexroth (India) Limited. He has completed the internship successfully. We wish him all the best for his future endeavors.

Certified Trainer Bosch Rexroth (India) Limited

Thorats 75

Bangalore

S.J.C.Institute of Technology



aut कार्क कार्क विकास फाउंड्री व फोर्ज प्रभाग FOUNDRY & FORGE DIVISION विज्ञासकी प्रकेशकार विज्ञासकी कार्यक्ष (BANGALORE COMPLEX किट्यासकी कार्यकार कार्यक्ष कार्यक्ष (BANGALORE COMPLEX किट्यासकी कार्यकार कार्य



ಆಂಚೆ ಪೆಟ್ಟಿಗೆ ಸಂಖ್ಯೆ 1791. ಬೆಂಗಳೂರು-560 017,ಭಾರತ पोस्ट बेग सं.1791, बेंगलूरु - 560 017, भारत Post Bag No. 1791, Bengaluru - 560 017, India Ph.: 91 - 80 - 2232 2223 2231 4261

"हिन्दी बढ़ेगी तभी, जब चाहेंगे सभी"

F/HR/G-13 (C)/1398 /2021

19th October, 2021

CERTIFICATE

This is to certify that Mr. Thulasi Ram T R (USN:1DA18ME132) studying B.E (Mechanical Engineering) at Dr. Ambedkar Institute of Technology, Bengaluru has successfully completed his Hybrid Internship training at Foundry & Forge Division, Hindustan Aeronautics Limited, Bangalore Complex from 20th September 2021 to 19th October 2021.

We wish all success in his future endeavors.

(SWAPNA M U)
SENIOR MANAGER (HR)

ಎಂ యు सूक्ष्यु/एम व् मात/M.U.SWAPNA ৯০య వ్యవస్థావకరు (ము నం)/वरिष्ठ प्रवेषक (मा सं)/Senior Manager (भेनी ఎఫ్ మెక్కు ఎఫ్ వి భాగ/एक व एफ प्रमाग/F&F Division ఎజ్ ఎ ఎల్ (జి సి)/एव ए एल (बी सी)/HAL (80) బింగటిందు/बेंगलुरु/BENGALURU-560817

Mr. Thulasi Ram T R,
Dr. Ambedkar Institute of Technology,
BDA Outer Ring Road, Mallathahalli
BENGALURU – 560 056.

ನೋಂದಾಯಿತ ಕಚೇರಿ : ೧೫/೧, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು–೫೬೦೦೦೧, ಭಾರತ पंजीकृत कार्यालय : 15/1, कब्बन रोड़, बेंगलूरु - 560 001, भारत Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India

CIN: L35301KA1963GOI001622 E(\$): i.mohanlal@hal-india.co.in



BMPL/INT/2021-22

Telefax: 080-27971761

DATE: 31-03-2022

To.

Head of the Department Department Of Mechanical Engineering Dr.Ambedkar Institute Of Technology, Mallathally, Bangalore-560056

Dear Sir/Madam,

Sub: Completion of Internship Course.

This is to certify that Mr. *Hariprasad* bearing USN number 1DA18ME041 student of VIII Semester B.E(MECH) at The Dr.Ambedkar Institute Of Technology, Mallathally Bangalore had undertaken Internship in our organization from 1st Feb 2022 to 31st March 2022. He has completed the internship course successfully to our satisfaction.

His conduct during tenures of his internship was "Satisfactory".

We wish him all the best in his career.

Regards

For Bangalore Metallurgicals Pvt Ltd

Authorised Signatory

Contrate (30)





BMPL/INT/2021-22

Telefax: 080-27971761

DATE: 31-03-2022

To.

Head of the Department Department Of Mechanical Engineering Dr.Ambedkar Institute Of Technology, Mallathally, Bangalore-560056

Dear Sir/Madam,

Sub: Completion of Internship Course.

This is to certify that Mr. *Hariprasad* bearing USN number 1DA18ME041 student of VIII Semester B.E(MECH) at The Dr.Ambedkar Institute Of Technology, Mallathally Bangalore had undertaken Internship in our organization from 1st Feb 2022 to 31st March 2022. He has completed the internship course successfully to our satisfaction.

His conduct during tenures of his internship was "Satisfactory".

We wish him all the best in his career.

Regards

For Bangalore Metallurgicals Pvt Ltd

Authorised Signatory

Contrate (30)





Mfrs. & Servicing: Hydraulic Torque Wrenches, Jack, Industrial Sockets Hydraulic Cylinders, Power Packs, Material Handling Equipment

Certificate of Internship

BANNAPPA PATROT (1DA18ME017)

This is to Certify that Final Year Mechanical Engineer Student of Dr. Ambedkar Institute of Technology, Bengaluru, has Successfully Completed his internship on Design and Study of Hydraulic Torque Wrenches and Applications in Dark Horse Hydraulics, at Bengaluru for the Period from 21/03/2022 to 26/04/2022

His Conduct and Progress during the above period was found to be SATISFACTORY.

B. WMAN JUNATH

STIN No: 29BPBPM25



Mfrs. & Servicing: Hydraulic Torque Wrenches, Jack, Industrial Sockets Hydraulic Cylinders, Power Packs, Material Handling Equipment

Certificate of Internship

BANNAPPA PATROT (1DA18ME017)

This is to Certify that Final Year Mechanical Engineer Student of Dr. Ambedkar Institute of Technology, Bengaluru, has Successfully Completed his internship on Design and Study of Hydraulic Torque Wrenches and Applications in Dark Horse Hydraulics, at Bengaluru for the Period from 21/03/2022 to 26/04/2022

His Conduct and Progress during the above period was found to be SATISFACTORY.

B. WMAN JUNATH

STIN No: 29BPBPM25



V.L.I. INUSTRIES

No. 2&3, 1st cross, G.K.W. Layout , laggere , Pennya 2nd Stage, Bengalure -560 058 E-mail: vliindustry@gmail.com

Mfrs of: Precision Machinery Components, Milling & Jig Boring Works

Ref No. Dr.AIT/Mech/57/27/08/21

Date: 04/10/2021

TO WHOM IT MAY CONCERN

This is to certify that (Ms/Mr/Mrs. YOGESH N Bearing USN 1DA19ME434 student of Dr. Ambedkar Institute of Technology has successfully completed a summer internship in the field of Precision Machinery Components Milling & Jig boring work from 06/09/2021 to 03/10/2021 under guidance of Mr.Srinivas G.

During the period of her/his internship program with us, she/he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her/him every success in her life and career.

Form V.L.I. INDUSTRIES Ltd.

BANGA: DEE - 10 7FC 5-94P

Authorized signature



Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company Doddaballapura Road, Yelahanka, Bangalore – 560064, India

Tel: 0091 -80 - 4284 1800 / 1802 Fax: 0091 -80 - 28460008

No. AIT: 002

12th OCT 2021



OF COMPLETION

This is to certify that student **Amith RS** of Ambedkar Institute of Technology pursuing BE Mechanical Engineering has carried out In-Plant Training in our organization from 13-09-2021 to 12-10-2021.

During this period, he was Punctual, Enthusiastic, and Inquisitive. It was pleasure having him with us in this short period.

We wish him bright future and success in his future endeavors.

For FEDERAL-MOGUL GOETZE (INDIA) LIMITED

Muddegowda

Head – Human Resources Bengaluru Campus

Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company

Regd. Office: DLF Prime Towers, 10 Ground Floor, F79 & 80, Okhla Phase - I, New Delhi- 110020.

Tel: 011. 4905 7597

Corporate Identity Number: L74899DL1954PLC002452

Corporate Office: Paras Twin Towers, 10th Floor, Tower B, Sector 54, Golf Course Road, Gurgaon—122002 Tel.:+91.124.4784530, Fax:+91.124.4292840,www.federalmogulgoetzeindia.net.com

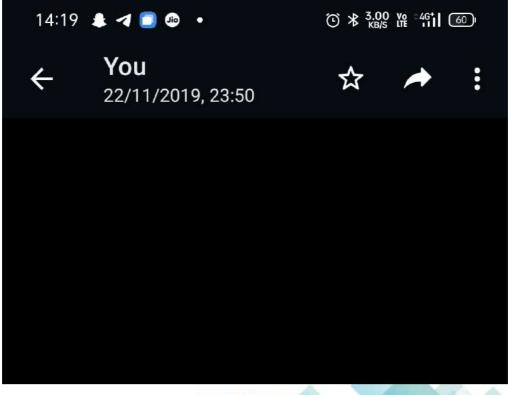
COETZE













CERTIFICATION

This is to certify that

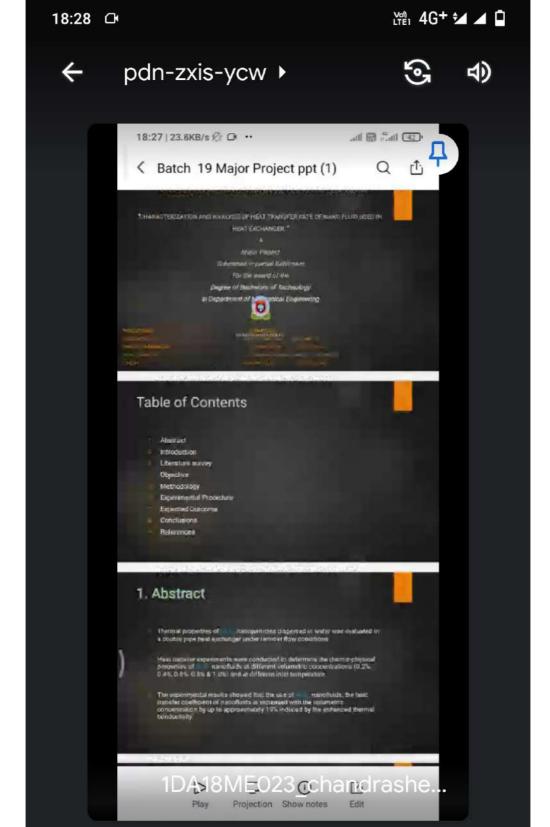
Abhishek M Veeraghantimath

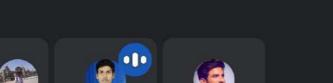
has successfully completed Internship Program "Robotics"

from 01st June, 2019 to 31st July, 2019 During the internship, the student was found to be dedicated, hardworking and diligent.

DATE: 22/11/2019

DIRECTOR





1DA18ME...



You



1DA18ME...











Date: 07/11/2021 Ref. SJCIT.BRAC/B2/11

Internship Certificate

This is to certify that Mr. Chandrashekar Molkeri bearing USN: 1DA18ME023, has completed his four week internship Technology (Industrial program on "Automation Hydraulics, Pneumatics, Sensors and PLC)" during the period from 13th September 2021 to 13th October 2021; for a period of Four weeks.

The internship has been carried out at Regional Center of Competence for Automation Technologies, established at SJC Institute of Technology in collaboration with Bosch Rexroth (India) Limited. He has completed the internship successfully. We wish him all the best for his future endeavors.

Bosch Rexroth (India) Limited Bangalore

Bharatt T.S

S.J.C.Institute of Technology Chickballapura



VTU-NASD/INTERNSHIP/07/CNCINT2137B11



Visvesvaraya Technological University National Academy for Skill Development



Internship Completion Certificate

This Certificate has been issued to

Mr. / Ms. CHETHAN KUMAR N R for a successful completion of Online Internship on

CNC Operations and Programming with "SATISFACTORY" performance Conducted for the Duration of 4 Weeks

from 23 August 2021 to 17 September 2021 organized by

VTU-National Academy for Skill Development, Dandeli-581325.

SKILL DEVELOPMENT DANDELI

Balavant k. Patil

Prof. Vishal Kulkarni Director, VTU-NASD Dr. A. S. Deshpande Registrar, VTU

"Score card is attached along with this certificate and final grading is based on score card marks"

Mob: 9880116180, 9980813159



BENAKA INDUSTRIES

#112/53, 10th Cross, Doddanna Industrial Estate, Bangalore - 560091. Email: benakaindustries789@gmail.com

Date: 03.02.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Mahesh B R, pursing his Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bangalore has successfully completed the internship program at Benaka Industries, Bangalore from December 21, 2021 to January 21, 2022.

His internship experience includes training with design team and familiarization to all the department and operational process, their management overview involved with the production process of the company.

We have found him to be a self-starter who is motivated, duty bound and Hard-working. He worked sincerely on his assignments and his performance was **Par excellence.**

We wish him all the best for his future endeavours.

For Benaka Industries

Proprietor



Skill India Internship

Certificate of Completion to Vishal

——for completing 1-month internship on———

Mechanical Design Internship

In this one-month program, you've shown grit, patience, curiosity and hard-work to learn skills that are important in Industry. And, this is just the start of journey to your dream career. Make your dream come true.

Keep Learning, Keep Exploring!

We wish you all the best for your future

S. No: ETGSI11051

Mayank Arora
CEO & Founder

mel on

Date of Issue: 29th Sept 2021









PSE-1885

PRINSTON SMART ENGINEERS



CERTIFICATE OF COMPLETION

PRESENTED TO

SATHVIK M PATEL

For successfully Completing the Training On

HVAC DESIGNING

Parlee Parkath



Din

HEAD: TRAINING & DEVELOPMENT

DIRECTOR PRINSTON SMART ENGINEERS

www.prinstonsmart.com









ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

Govt. Tool Room & Training Centre

(A Govt. of Karnataka Society)

(An Indo – Danish Project) Rajajinagar Industrial Estate, Bengaluru – 560 010, INDIA

Date: 24.09.2021

Internship Letter

Certificate of Competency is awarded for successful Completion of Course in Solidworks to Mr. Umesh (1DA19ME429) for the period of oz.og.zozi to 24.09.2021 at Govt. Tool Room & Training Centre, Bangalore.

Principal

Principal
Govt. Teol Room & Training Centre
Rajajinagar Industrial Estate
Bangalore - 560 010



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

Govt. Tool Room & Training Centre

(A Govt. of Karnataka Society)

(An Indo – Danish Project) Rajajinagar Industrial Estate, Bengaluru – 560 010, INDIA

Date: 24.09.2021

Internship Letter

Certificate of Competency is awarded for successful Completion of Course in Solidworks to Mr. C Chethan (1DA19ME405) for the period of 02.09.2021 to 24.09.2021 at Govt. Tool Room & Training Centre, Bangalore.

Principal

Principal
Govt. Tool Room & Training Centre
Rajajinagar Industrial Estate
Bangalore - 560 010



DARK HORSE HYDRAULICS

THE HUB OF ENGINEERING SOLUTIONS

Mfrs. & Servicing: Hydraulic Torque Wrenches, Jack, Industrial Sockets Hydraulic Cylinders, Power Packs, Material Handling Equipment

Certificate of Internship

C PRAJNAN (1DA18ME021)

This is to Certify that Final Year Mechanical Engineer Student of Dr. Ambedkar Institute of Technology, Bengaluru, has Successfully Completed his internship on **Design and Study of Hydraulic Power Pack** and **Applications** in **Dark Horse Hydraulics**, at Bengaluru for the Period from 21/03/2022 to 21/04/2022

His Conduct and Progress during the above period was found to be SATISFACTORY.

B. TAMANJUNATH

DH²

#13, 1st Main Road, Kamakshipalya New Extension, Near Check Post, Bangaluru-560 079. GSTIN No: 29BPBPM2515M1ZP

• 9591976431 9035414890

• darkhorsehydraulics22@gmail.com

CHEMICALS AND FERRO ALLOYS PRIVATE LIMITED

Ref: CFA/DWD/13/2021-22

Date: 30-09-2021

Certificate

This is to certify that, Mr. Shamik Patil (1DA18ME111) who is pursing his studies for the award of B.E. (Mechanical) from Dr. Ambedkar Institute of Technology, Bengaluru, has successfully completed his internship at Chemicals and Ferro Alloys Pvt Ltd, (A Neterwala Group Company) Dharwad, for a period of 4 Weeks from 01.09.2021 to 31.09.2021.

For Chemicals and Ferro Alloys Pvt Ltd.,

ulle

Madhu Shivangi CEO & PLANT HEAD

CHEMICALS & FERRO ALLOYS PRIVATE LIMITED No.582A, Belur Industrial Area-580011 Charwad, Karnataka State India



Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company Doddaballapura Road, Yelahanka, Bangalore - 560064, India

Tel: 0091 -80 - 4284 1800 / 1802 Fax: 0091 -80 - 28460008

No. AIT: 002 12th OCT 2021



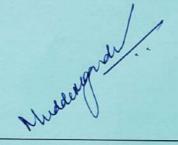
OF COMPLETION

This is to certify that student Prajwal P of Ambedkar Institute of Technology pursuing BE Mechanical Engineering has carried out In-Plant Training in our organization from 13-09-2021 to 12-10-2021.

During this period, he was Punctual, Enthusiastic, and Inquisitive. It was pleasure having him with us in this short period.

We wish him bright future and success in his future endeavors.

For FEDERAL-MOGUL GOETZE (INDIA) LIMITED



Muddegowda

Head - Human Resources Bengaluru Campus

Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company

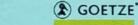
Regd. Office: DLF Prime Towers, 10 Ground Floor, F79 & 80, Okhla Phase - I, New Delhi- 110020.

Tel: 011. 4905 7597

Corporate Identity Number: L74899DL1954PLC002452

Corporate Office: Paras Twin Towers, 10th Floor, Tower B, Sector 54, Golf Course Road, Gurgaon- 122002 Tel.:+91.124.4784530, Fax:+91.124.4292840,www.federalmogulgoetzeindia.net.com









Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company Doddaballapura Road, Yelahanka, Bangalore – 560064, India

Tel: 0091 -80 - 4284 1800 / 1802 Fax: 0091 -80 - 28460008

No. AIT: 002

12th OCT 2021



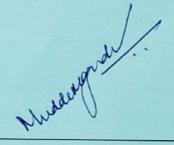
OF COMPLETION

This is to certify that student **Prajwal P** of Ambedkar Institute of Technology pursuing BE Mechanical Engineering has carried out In-Plant Training in our organization from 13-09-2021 to 12-10-2021.

During this period, he was Punctual, Enthusiastic, and Inquisitive. It was pleasure having him with us in this short period.

We wish him bright future and success in his future endeavors.

For FEDERAL-MOGUL GOETZE (INDIA) LIMITED



Muddegowda

Head – Human Resources Bengaluru Campus

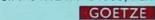
Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company

Regd. Office: DLF Prime Towers, 10 Ground Floor, F79 & 80, Okhla Phase - I, New Delhi- 110020.

Tel: 011. 4905 7597

Corporate Identity Number: L74899DL1954PLC002452

Corporate Office: Paras Twin Towers, 10th Floor, Tower B, Sector 54, Golf Course Road, Gurgaon—122002 Tel.:+91.124.4784530, Fax:+91.124.4292840,www.federalmogulgoetzeindia.net.com



PISTONS







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In this one-month program, you've shown grit, patience, curiosity and hard-work to learn skills that are important in Industry. And, this is just the start of journey to your dream career. Make your dream come true.

Keep Learning, Keep Exploring!

We wish you all the best for your future

S. No: ETGSI11051

Mayank Arora
CEO & Founder

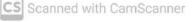
mel on

Date of Issue: 29th Sept 2021









Thanks & Regards, Chandrakant D Jamadar 8766758753 System Admin

VTU-NASD-Dandeli-581325



N.A.S.D.

NATIONAL ACADEMY FOR SKILL DEVELOPMENT

Visvesveraya Technological University

Thanks & Regards, Chandrakant D Jamadar 8766758753 System Admin

VTU-NASD-Dandeli-581325



N.A.S.D.

NATIONAL ACADEMY FOR SKILL DEVELOPMENT

Visvesveraya Technological University



Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company Doddaballapura Road, Yelahanka, Bangalore – 560064, India

Tel: 0091 -80 - 4284 1800 / 1802 Fax: 0091 -80 - 28460008

No. AIT: 002

12th OCT 2021



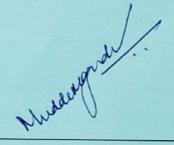
OF COMPLETION

This is to certify that student **Prajwal P** of Ambedkar Institute of Technology pursuing BE Mechanical Engineering has carried out In-Plant Training in our organization from 13-09-2021 to 12-10-2021.

During this period, he was Punctual, Enthusiastic, and Inquisitive. It was pleasure having him with us in this short period.

We wish him bright future and success in his future endeavors.

For FEDERAL-MOGUL GOETZE (INDIA) LIMITED



Muddegowda

Head – Human Resources Bengaluru Campus

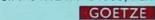
Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company

Regd. Office: DLF Prime Towers, 10 Ground Floor, F79 & 80, Okhla Phase - I, New Delhi- 110020.

Tel: 011. 4905 7597

Corporate Identity Number: L74899DL1954PLC002452

Corporate Office: Paras Twin Towers, 10th Floor, Tower B, Sector 54, Golf Course Road, Gurgaon—122002 Tel.:+91.124.4784530, Fax:+91.124.4292840,www.federalmogulgoetzeindia.net.com



PISTONS







Federal-Mogul Goetze (India) Ltd.
A Tenneco Group Company
Doddabaliapura Road, Yalahanka,
Bangalore – 560064, India
Tel: 0.091 - 80 – 2844 1800 / 1802
Fax: 0.091 - 80 – 28460008

12th OCT 2021

No. AIT: 002



OF COMPLETION

This is to certify that student Amith RS of Ambedkar Institute of Technology pursuing BE Mechanical Engineering has carried out In-Plant Training in our organization from 13-09-2021 to 12-10-2021. During this period, he was Punctual, Enthusiastic, and Inquisitive. It was pleasure having him with us in this short period.

We wish him bright future and success in his future endeavors.

For FEDERAL-MOGUL GOETZE (INDIA) LIMITED

Muddegowda

Head - Human Resources Bengaluru Campus Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company Regd. Office ; DLF Prime Towers, 10 Ground Floor, F79 & 80, Okhla Phase – I , New Delhi– 110020. Tel: 011, 4905 7597

Corporate Office: Paras Twin Towers, 10th Floor, Tower B, Sector 54, Golf Course Road, Gurgaon- 122002 Tel. :+91.124.4784530, Fax : +91.124.4292840,www.federalmogulgoetzeindia.net.com Corporate Identity Number: L74899DL1954PLC002452











Telefax: 080-27971761

DATE: 31-03-2022

To.

Head of the Department Department Of Mechanical Engineering Dr.Ambedkar Institute Of Technology, Mallathally, Bangalore-560056

Dear Sir/Madam,

BMPL/INT/2021-22

Sub: Completion of Internship Course.

This is to certify that Mr. Chethan K bearing USN number 1DA18ME025 student of VIII Semester B.E(MECH) at The Dr.Ambedkar Institute Of Technology, Mallathally Bangalore had undertaken Internship in our organization from 1st Feb 2022 to 31st March 2022. He has completed the internship course successfully to our satisfaction.

His conduct during tenures of his internship was "Satisfactory".

We wish him all the best in his career.

Regards

For Bangalore Metallurgicals Pvt Ltd

Authorised Signatory

aronguest



(An Indo Danish Project)
RAJAJINAGAR INDUSTRIAL ESTATE
BENGALURU - 560 010 INDIA

Govt. Tool Room & Training Centre

Certificate of Competency

REGISTER No.: ST021505006

This is to certify that

MR./Ms. HARSHITHA V

HAS UNDERGONE THE : CNC PROGRAMMING & OPERATIONS

Course for a period of ONE MONTH

FROM: 30.08.2021

To: 29.09.2021

AT GOVT. Tool ROOM & TRAINING CENTRE, MADDUR

For having completed the course successfully

he/she is awarded with this certificate of competency.

Co-ordinator

Principal

R. Monttelling
General Manager - Training

DATE: 13.10.2021



"Scientific & Industrial Research Organisation" Recognised by Govt. of India ID NO: 1191

Certificate No 13015



CITI ITI LIMITED



Bangalore Plant Dooravaninagar Bangalore-560016

HUMAN RESOURCES - EMPLOYEE DEVELOPMENT CENTRE

Certificate

This is to certify that Mr. Biradar Abhishek

B.E (Mechanical)

Of

Dr Ambedkar Institute of Technology – Bangalore has successfully completed

Internship

During the period from 03/09/2021 to 01/10/2021

In the following areas

Telephones Defence Productions, Switching Access Products, Research & Development, Information Technology, Quality Assurance & IOT



Signature of the Trainee Date 01/10/2021



Issuing Angidar Helson C
CMR-Teth High PR
Chief Manager-Human Resource
मुख्य प्रबंधक - मानव संसाधन

मुख्य प्रबंधक - मानव संसाधन ITI Limited/ आईटीआई लिमिटेड Bengaluru-16/बेंगलुरु-16

www.itiltd-india.com Email: mhred bgp@itiltd.co.in





Visvesvaraya Technological University National Academy for Skill Development



Internship Completion Certificate

This Certificate has been issued to

Mr. / Ms. CHETHAN S BASHETTY for a successful completion of Online Internship on

CNC Operations and Programming with "SATISFACTORY" performance Conducted for the Duration of 4 Weeks

from 23 August 2021 to 17 September 2021 organized by

VTU-National Academy for Skill Development, Dandeli-581325.

Balavant k. Patil CTO, VTU-NASD

Prof. Vishal Kulkarni Director, VTU-NASD Dr. A. S. Deshpande

Registrar, VTU

"Score card is attached along with this certificate and final grading is based on score card marks"



ಕರುನಾಡು ಟೆಕ್ನೋಲಜಸ್ ಪ್ರೈವೆಟ್ ಅಮಿಟೆಡ್ KARUNADU TECHNOLOGIES PRIVATE LIMITED

Certificate
of Completion

INTERNSHIP PROGRAM
ON
Python and Machine Learning







1DA18ME029

THIS IS TO CERTIFY THAT

MR/Ms.DAWOOD MUZAWAR.

FROM COLLEGE DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

HAS COMPLETED ONE MONTH INTERNSHIP PROGRAM ON

PYTHON AND MACHINE LEARNING

CONDUCTED FROM 01-SEP-2021 TO 30-SEP-2021 AT KARUNADU TECHNOLOGIES PVT. LTD.



Mahesh Deginal
MD & CEO
Karunadu Technologies Pvt. Ltd.









Harish .N
GUIDE
Karunadu Technologies Pvt. Ltd.

E-mail: karunadutechnologies@gmail.com

www.karunadutechnologies.com



ಕರುನಾಡು ಬೆಕ್ನೂ ಅಜನ್ ಪ್ರೈವೇಟ್ ಅಖುಬೆಡ್ KARUNADU TECHNOLOGIES PRIVATE LIMITED

#17, A.T.K. Complex, 2nd & 4th Floor, Acharya College Main Road, Beside Karur Vysya Bank, Guttebasaveshwara Nagar, Chikkahanavara, Bengaluru - 560090

Ref No: KTPT/INT/2021/0756

Date: 19-Nov-2021

To Whomsoever It May Concern

CERTIFICATE

This is to certify that Mr/Ms. DAWOOD MUZAWAR from Ambedkar Institute of Technology (ME) bearing USN-1DA18ME029 has successfully completed internship programme at Karunadu Technologies Private Limited from 01-Sep-2021 to 30-Sep-2021 and found the candidate's performance is good.

During his/her Internship, he/she was exposed to the various activities in field of Python with Machine Learning. During the course he/she was trained and he/she carried out projects on

- 1. Prediction of White Wine Quality In Wine Quality Dataset By Using KNN Algorithm
- 2. Prediction of Diabetes In Diabetes Prediction Dataset By Using SVM Algorithm.
- 3. Prediction of Person Hired Or Not In Marksdataset Using KNN Algorithm.
- 4. Prediction of Weight In Height Weight Predictor Dataset By Using Linear Regression Algorithm

During the period of his/her Internship training with us he/she was found punctual, hardworking and inquisitive.

His/her association with us was very fruitful and we wish he/she all the best in his/her

future endeavours. Swill

GUIDE

Karunadu Technologies Pvi

SUNICKUMAR

Managing Director

Karunadu Techhologies Pvt.Ltd.

Registered Office:

No. 59, 2nd Main, 1st Cross, Near Singapura Village Bus Stop, Vidyaranyapura, Bengaluru - 560064, CIN: U74999KA2018PTC114911, Mob: +91 9964823646 /+91 9902913646 E-mail: karunadutechnologies@gmail.com, support@karunadutechnologies.com, Website: www.karunadutechnologies.com



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Certificate of Internship HVAC DESIGN

JAYANTH KUMAR H K

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA18ME048

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

December 9th,2021 to January 13th,2022.





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Certificate of Internship HVAC DESIGN

MADHU C

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA18ME056

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 9th to September 13th, 2021.





www.prinstonsmart.com



Mob: 9980813159

MAHESH INDUSTRIES

No. 14, 16th Cross, Doddanna Industrial Estate, Vishwa Needam Post, Near Peenya 2nd Stage, Bangalore-560 091. E-mail: maheshindustries159@gmail.com

Ref.:

Date:

Date: 03.02.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Manoj. S, pursing his Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bangalore has successfully completed the internship program at Mahesh Industries, Bangalore from December 21, 2021 to January 21, 2022.

His internship experience includes training with design team and familiarization to all the department and operational process, their management overview involved with the production process of the company.

We have found him to be a self-starter who is motivated, duty bound and Hard-working. He worked sincerely on his assignments and his performance was Par excellence.

We wish him best of luck for his future.

For MARKESH INDUSTRIES

Proprietor

D	aily Log Activity Report
Company Name	GTTC. Kolar
Company Mentor/Guide name	Hemanth Raj
Period of Internship (in Days)	30 dus

Day 1

Illustrate Activity Performed

* Introduction about government tool room and training Centre

Visit to work shop

A getting familized with different CNI machines like CNI milly & (NC twining, & other equipment.

Start Time End Time

Signature of Company Mentor/Guide with Seal

Skill Development
HOD



Da	ily Log Activity Report
Company Name	STIC, Kolar
Company Mentor/Guide name	Hemanth may M.S
Period of Internship (in Days)	30 days

Day 1+1

Illustrate Activity Performed

- Introduction to CNC-twining programming

 A Graph structure of eNC-operations

 Type of CNC-Machines

Start Time End Time

Signature of Company Mentor/Guide with Seal

Hoth KT Meg Skill Development

Dr. Ambedkar Institute of Technology, Bangalore - 560056	
Department of Mechanical Engineering	

Da	ily Log Activity Report
Company Name	STTC, KOLON
Company Mentor/Guide name	Hemants Day MG
Period of Internship (in Days)	30 day

Day 1 + 2 Illustrate Activity Performed

A Type of programming system

Start Time	
End Time	

Signature of Company Mentor/Guide with Seal

Mather M. ey

Skill Development

Daily Log Activity Reg	MA
pany Name STTC rola	
pany Mentor Guide name Heman & R	6 11.6
ed of Internship (in Days) Re Olates	
Annual residence of the second	<u>a) 11.6</u>

Day 1+3 Illustrate Activity Performed

→ G codes → M codes

Start Time End Time

Signature of Company Mentor/Guide with Seal

北部四十四

Skill Development

Da	ily Log Activity Report
Company Name	STTC, Kolar
Company Mentor/Guide name	Hemanth Day M.S
Period of Internship (in Days)	30 days

Day 1 + 4 Illustrate Activity Performed

Introduction to Absolute programming system

* Simple programming bound on absolute

Programming system

Start Time End Time

Signature of Company Mentor/Guide with Seal

Hether M. 4

HOD

Skill Development

Da	ily Log Activity Report
Company Name	STIC, Kolar
Company Mentor/Guide name	Hemanth maj, M.S
Period of Internship (in Days)	30 days

Day 1 + √ Illustrate Activity Performed

* Different types of programs on Absolute programming system

Start Time End Time

Signature of Company Mentor/Guide with Seal

Harty HOD W.4 Skill Development

Da	nily Log Activity Report
Company Name	STTC, kolor
Company Mentor/Guide name	Hemanth Ray MS
Period of Internship (in Days)	zo days

	mustrate 7	ictivity i cironinec	
7	Introduction to I	neremental	Trogramming
	l'intle programi	based on	inenmental

programmy cyclin

Start Time End Time

Signature of Company Mentor/Guide with Seal

Herry M.ey

Dr. Ambedkar Institute of Technology, Bangalore - 560056	
Department of Mechanical Engineering	

Da	ily Log Activity Report	
Company Name	STTC, kolar	
Company Mentor/Guide name	Hemanoh mai MG	
Period of Internship (in Days)	30 days	

Day 1+7-	
Illustrate Activity Performed	
Telferent types of gragram based on Incremental programming exitem.	
	1 1

Start Time	
End Time	

Signature of Company Mentor/Guide with Seal

Hatta Rg M. 4

U	aily Log Activity Report
Congrany Name	GITC, Kolar
Company Mentor Guide name	Hemanth erai M.G
Period of Internship (in Days)	30 den

Day 148 Illustrate Activity Performed * Introduction of twining operation in CMC. * programs based on twining operation * perform turning operation on workspitce in CMC Machine

Start Time End Time

Signature of Company Mentor/Guide with Sea

HowHOD W- ey

Da	aily Log Activity Report
Company Name	STIC. leolar
Company Mentor/Guide name	Hemanth has M.G
Period of Internship (in Days)	zo days

*	Introduction of stop turning operation in
D	programs based on step turning operation
¥	Performing eter turning operation on worldpiece in call meubine.

Start Time End Time

Signature of Company Mentor/Guide with Seal*

Hend by M. ey

Daily Log Activity Report		
Company Name	GITC. lealar	
Company Mentor/Guide name	Himanih zai HG	
Period of Internship (in Days)	30 days	

	Day 1+10
	Illustrate Activity Performed
	Introduction of facing operation in
A	programs based on facing qualism
¥	performing facing operation on workprice

Start Time End Time

Signature of Company Mentor/Guide with Seal

Hermiod Iskill Development

Da	aily Log Activity Report	
Company Name	STTC. Kolor	
Company Mentor/Guide name	Henonth Agi MS	
Period of Internship (in Days)	30 days	

	Day 1 +11
	Illustrate Activity Performed
7	Introduction of grooving operation in
7	programs haved on grooving operation
*	performing grooving operation of workpiece
	in CN(machine

Start Time End Time

Signature of Company Mentor/Guide with Sea

Henry ly H. 4

District State of the second s	illy Log Activity Report
Company Name	STTC, Volor
Company Mentor/Guide name	Himanty 201 M.G
Period of Internship (in Days)	70 days
The second secon	Company of the Compan

Illustrate Activity Performed

Introduction of threading operation in

CN(

** programs, band threading operation

** performing dividing op, threading operation

on woods prece is (Me machine

Start Time
End Time
Company Mentor/Guide with Sealth

Signature of Company Mentor/Guide with Seal*

Heather M. 4
Skill Development

Da	illy Log Activity Report
Company Name	GTTC, Polor
Company Mentor/Guide name	Hemanth Jag M.G
Period of Internship (in Days)	30 days
	S Carrier San Company

	Day 1 113 Illustrate Activity Performed
X	Introduction of drilling operation in
	CNIC
X	programs based on drilling operation.
*	prenforming drilling quatron on workprice
	in CNI machine

Start Time End Time

Signature of Company Mentor/Guide with Sev *

Herting M.eq

Daily Log Activity Report		
Commany Name	GTTC , Kelar	
Communa Memor Guide marre	4 month may 45	
Period of Intereship (in Dees)	To day	

	Day 1+114
Thistrate Activity Performed	
7	Introduction of Enternal threading in
7	gragian band on internal threading
P	performing internal throody or workpiese
	In Carlo antistant

Start Time		
End Time		

Signature of Company Memor/Guide with Seal

HOD H-4 Skill Development

	Daily Log Activity Report
Company Name	GITC, Volav
Company Mentor/Childe name	Humanth naj M.G.
Period of Internship (in Days)	10 days

Day 1 1 16

Illustrate Activity Performed * Introduction of Topening operation CNE

A program build on topening operation

A performing deposing operation on wordepiece
the CNC machine

Start Time End Time

Signature of Company Mentor/Guide with Seal

	th Log Authir Report
CAMPANA VINING	Styl . Valar
CLAMPART WARRY CHARLES WHATE	Meanainth stai
Court in mounding in tring	to down

Day 1中核

Howhate Activity Performed

performing all operations in single workpiece to obtain complex job.

Start Time End Time

Signature of Company Mentor/Guide with Sea

Skill Development

Daily Log Activity Report		
TTC, Kolor		
temanth rai		
o days		

Day 1+17

Illustrate Activity Performed

Performing all operations et single wordeprece

Start Time
End Time
Signature of Company Mentor/Guide with

Hother Hag

Skill Development

Daily Log Activity Report		
Company Name	STTI, Kolor	
Company Mentor/Guide name	Hengoth nay	
Period of Internship (in Days)	30 days	

Day 1+19

Illustrate Activity Performed

performing all operation in lingle workprice

	Annual Control of the	
	Start Time	
	End Time	11. 17
Signature	e of Company Mentor/Gu	TOLAR



(An Indo Danish Project)
RAJAJINAGAR INDUSTRIAL ESTATE
BENGALURU - 560 010 INDIA

Govt. Tool Room & Training Centre

Certificate of Competency

REGISTER No.: ST09010731178

This is to certify that

MR./MS. PRAVEENKUMAR R

HAS UNDERGONE THE

"CNC MILLING PROGRAMMING & OPERATION "

Course for a period of 01 Month

: 02.09.2021

o: 30.09.2021

AT COVT. Tool ROOM & TRAINING CENTRE, BENGALURU

For having completed the course successfully

HE/SHE is awarded with this certificate of competency.

Co-ordinator

R.Multubusar General Manager - Training

"Scientific & Industrial Research Organisation"

Recognised by Govt. of India

Principal

DATE: 04.10.2021

THE PARTY OF THE P





Certificate of Internship

Congratulations, Rachappa

Electric Vehicle Technology

Course Completed on 11th Sept, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs

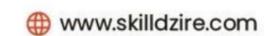


Founder & CEO

SkillDzire Technologies Pvt. Ltd, Bizness Square 16, HITEC City, Hyderabad, Telangana | 500081







सूक्ष्मतरंग नलिका अनुसंधान तथा विकास संगठन



बी.ई.एल. कांप्लेक्स,जालहल्ली, बेंगलूरु -560013

Microwave Tube Research and Development Centre BEL Complex, Jalahalli, Bangalore-560013, Karnataka

CERTIFICATE

This is to certify that Ms. Rajat S Navarathna (1DA18ME091), student from Dr. Ambedkar Institute of Technology, Bangalore has completed his internship in the domain of "Orientation to Mechanical Engineering Activities" at Microwave Tube Research and Development Centre, DRDO, Bengaluru from 1st Sep 2021 to 30th Sep 2021 under my guidance.

Date: 01/10/2021

Arun Kumar Singh Scientist – F

Dr LATHA CHRISTIE Associate Director & Head, HRD Training Division

John 1 10/2021



S.M. TECHNOLOGIES

Manufactures of CNC Milling Components

Shed No. 2, # 65, 2nd Main Road, Mayura Nagar, Andrahalli Main Road, Hegganahalli, BENGALURU - 560 091. Mob: 9845860445, E-Mail: sridharrajath1970@gmail.com

Date: 30/10/2021

TO WHOM IT MAY CONCERN

This is to certify that MR. RAJATH.S, a student of B.E (Major in Mechanical Engineering) Dr. A.I.T., Visvesvaraya Technical University, Belgaum has successfully completed 01 (one) month (From 29th September 2021 to 29th October 2021 internship programme at this Branch/Company. During the period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.

For, S.M.Technologies

For S.M. TECHNOLOGIES

Proprietor

Authorized Signature



RAJAJINAGAR INDUSTRIAL ESTATE BENGALURU - 560 010 INDIA

Govt. Tool Room & Training Centre

Certificate of Competency

REGISTER No. : ST09010731180

This is to certify that

MR./Ms. REDDY KUMAR V

HAS UNDERGONE THE

"CNC MILLING PROGRAMMING & OPERATION "

Course for a period of 01 Month

From: 02.09.2021

To: 30.09.2021

AT COVT. Tool ROOM & TRAINING CENTRE, BENGALURU

For having completed the course successfully

HE/SHE is AWARDED WITH THIS CERTIFICATE OF COMPETENCY.

Colordinator

GENERAL MANAGER - TRAINING

DATE: 04.10.2021

Recognised by Govt. of India



PRINSTON SMART ENGINEERS

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Empowering and Inspiring
future professionals

Sanjay Kumar D C H V A C D E S I G N

Certificate Of Internship

July 16th to August 20th 2020

Dr Ambedkar Institute of Technology, 1DA18ME107

During Internship, Intern was found to be good and disciplined.





www.prinstonsmart.com



BILAGI SUGAR MILL LIMITED

Badagandi Plant, Bagalkot - 587116



HUMAN RESOURCES – EMPLOYEE DEVELOPMENT CENTRE

CERTIFICATE

This is to certify that

MR. Sharat M Kuchanur

BE (Mechanical)

Of

Dr Ambedkar Institute Of Technology - Bangalore

Has successfully completed

Internship

During the period from 6/09/2021 to 25/09/2021

In the following areas

Mill House, Co-Generation, Boiler, Distillery, Turbine, Process House

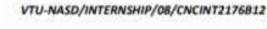
Signature of the Trainee
Date 25/09/2021



General Manager
NYAMAGOUDA A. L.
General Manager - Distillery
BILAGI SUGAR MILL LTD.

BADAGANDI - 587 116 Tq:Bilagi, Dt: Bagalkot







Visvesvaraya Technological University National Academy for Skill Development



Internship Completion Certificate

This Certificate has been issued to

Mr. / Ms. SUMANTH for a successful completion of Online Internship on

CNC Operations and Programming with "SATISFACTORY" performance Conducted for the Duration of 4 Weeks

from 23 August 2021 to 17 September 2021 organized by

VTU-National Academy for Skill Development, Dandeli-581325.

Balavant k. Patil

Prof. Vishal Kulkarni Director, VTU-NASD Dr. A. S. Deshpande Registrar, VTU

"Score card is attached along with this certificate and final grading is based on score card marks"



CAST CRAFT PRIVATE LIMITED

Date: 04.12.2021

TO WHOSOEVER IT MAY CONCERN

This is to certify that, Mr Sunil N S (1DA18ME127) student at Dr Ambedkar institute of technology done his internship on "Tool life measurement" on the component called Pedestal at Cast Craft Pvt Ltd from 1st September 2021 to 30th September 2021

During the period of his internship program with us, he has been exposed to CNC milling machining process, tools of various grades like milling inserts, cutters, carbide drills and cutting parameters used. Found taking interest to know more about work holding device and its importance in getting consistent quality and reduced machining time.

During his stay, he was enthusiastic to learn new things, found punctual and sincere.

We wish him all the best for his future endeavors.

For Cast craft Pvt Ltd

V B Nayak

Head operations

ವಿಮಾನ ಸಂಶೋಧನೆ ಮತ್ತು ವಿನ್ಯಾಸ ಕೇಂದ್ರ(ಎ ಆರ್ ಡಿ ಸಿ)
विमान अनुसंधान एवं अभिकल्प केन्द्र (ए आर डी सी)
AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)
ವಿನ್ಯಾಸ ಸಂಕೀರ್ಣ/अभिकल्प कॉम्प्लेक्स/DESIGN COMPLEX
ಹಿಂದೂಸ್ಥಾನ್ ಏರೋನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
हिन्दुस्तान एरोनॉटिक्स लिमिटेड
HINDUSTAN AERONAUTICS LIMITED



ಮಾರತ್ತ್ ಹಳ್ಳಿ ಹೋಸ್ಟ್, ಬೆಂಗಳೂರು-560037, ಭಾರತ मारतहल्ली पोस्ट, बेंगलूरु-560037, भारत Marathahalli Post, Bengaluru-560037, India ದೂ /दूरभाष/Ph.: 91-80-22324312,22316774 ಫ್ಯಾಕ್ಸ್ /फैक्स /Fax:91-80-22314320

D/ARDC/HR/Proj/Cert/448/21

06.10.2021

CERTIFICATE

This is to certify that **Ms Varshitha S** who is a student of B.E (Mechanical), Dr Ambedkar Institute of Technology, Bengaluru, has undergone **Internship Training** at HAL ARDC, Design Complex, Bengaluru from 08-09-2021 to 06-10-2021 on "**No-Pay-No-Fee-Basis**". She has been punctual, sincere and committed trainee. Her conduct has been Excellent.

The student brings in a lot of energy and enthusiasm in the work, she is structured in her approach and methodical in resolving a problem. She is resourceful and adaptive to working environment.

The sources Department

(Prachi Dalvi) Manager (HR) ARDC, Design Complex.

ನೋಂದಾಯಿತ ಕಛೇಠಿ : 15/1, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ पंजीकृत कार्यालय : 15/1, कब्बन रोड़, बेंगलूरु - 560 001, भारत Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India

ಸి ఐ ఎన్/ सी आई एन / CIN: L35301KA1963GOl001622







TAKE IT SMART (OPC) PVT. LTD

Reg No: 150027 Date:20/04/2022

To Whom It May Concern

This is to Certify that Miss/Mr. VINAYAKA DESHPANDE Bearing USN 1DA18ME137 is a Bonafide Student of DR AMBEDKAR INSTITUTE OF TECHNOLOGY BANGALORE STUDYING MECHANICAL ENGINEERING has Undertaken Internship in "STUDY ON THE ADVANCED TECHNOLOGY USED IN BS6 VEHICLES" with us from 19TH MARCH 2022 to 19th APRIL 2022.

During the period of her/ his Internship program with us, she/ he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We take this opportunity to thank him/her and wish him/her all the best for his/her future.

For, Take it smart (OPC) Pvt.Ltd



Mr. MALLIKARJUN KUMBAR DIRECTOR

1274 2nd Floor, Sanitary Core, 3rd phase, Yelahanka New Town, Bengaluru, Karnataka - 560 064.





Mob: 9980813159

MAHESH INDUSTRIES

No. 14, 16th Cross, Doddanna Industrial Estate, Vishwa Needam Post, Near Peenya 2nd Stage, Bangalore-560 091. E-mail: maheshindustries159@gmail.com

Ref.: Date:

Date: 03.02.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Yogesh N, pursing his Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bangalore has successfully completed the internship program at Mahesh Industries, Bangalore from December 21, 2021 to January 21, 2022.

His internship experience includes training with design team and familiarization to all the department and operational process, their management overview involved with the production process of the company.

We have found him to be a self-starter who is motivated, duty bound and Hard-working. He worked sincerely on his assignments and his performance was **Par excellence.**

We wish him best of luck for his future.

For Mahesh Industries

FOR MAHESH INDUSTRIES

Proprietor





Date: 28.10.2021

Internship Certification

Mr. Bhaskar .N Quality – Engineer Bangalore-560049

Dear Mr. Bhaskar .N,

We refer to your letter of resignation dated 01.10.2021 and the circumstance stated it is accepted with regret.

You have been relieved from the services of the company from the closing hours of the work, on 28.10.2021.

We would like to place on record our appreciation of your valuable contribution during your tenure with the company and wish you all success in your future endeavours.

Name : Bhaskar .N

Location : Bangalore

Date of Joining : 01.10.2021

Designation : Trainee Engineer

Date of Relieving : 28.10.2021

For STANLEY ENGINEERED FASTENING INDIA PVT LTD.

Mr. Somshaker

Head - Human Resources (India)



SUPREME SERVICES

Authorised KOEL Care Centre

799/1A, F-20/1A, 9th Cross, Ramanuja Road, K. R. Mohalla, Mysore -570 004 : 0821-2332655. Cell : 9945273702. E-mail : suprememysore@gmail.com

Branch office : Kushalnagar Ph : 9686669888 E-mail : sskushalnagar@gmail.com Branch office : Mandya Ph : 9686669889 E-mail : ssmandya03@gmail.com



TO WHOM IT MAY CONCERN

This is to certify that Mr. CHANDAN K (USN- 1DA19ME406) Student of B.E (MECHANICAL ENGINEERING) Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY BANGALORE. He has successfully completed his Academic Internship in Our Organization from 27-08-2021 to 26-09-2021.

He found hard working, Punctual and good character during the period of his AcademicInternship In our Organization.

We wish him all success in his future endeavor.



Mob: 9886767109 9448848290



V.L.I. INDUSTRIES

No. 2&3, 1st cross, G.K.W. Layout , laggere , Pennya 2nd Stage, Bengalure -560 058 E-mail: vilindustry@gmail.com

Mfrs of: Precision Machinery Components, Milling & Jig Boring Works

Ref No. Dr.AlT/Mech/86/02/09/21

Date: 04/10/2021

TO WHOM IT MAY CONCERN

This is to certify that (Ms/Mr/Mrs. CHARAN C Bearing USN 1DA19ME407 student of Dr. Ambedkar Institute of Technology has successfully completed a summer internship in the field of Precision Machinery Components Milling & Jig boring work from 06/09/2021 to 03/10/2021 under guidance of Mr.Srinivas G.

During the period of her/his internship program with us, she/he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her/him every success in her life and career.

Form V.L.I. INDUSTRIES Ltd.

Authorized signature

12

2016JE8280*



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

Govt. Tool Room & Training Centre

(A Govt. of Karnataka Society)

(An Indo – Danish Project) Rajajinagar Industrial Estate, Bengaluru – 560 010, INDIA

Date: 28.09.2021

Internship Letter

Certificate of Competency is awarded for of successful Completion Course in MasterCam to Mr. Kumar Swamy (1DA19ME411) for the period 02.09.2021 to Govt. Tool 24.09.2021 at Room & Training Centre. Bangalore.

Principal

Principal
Govt. Tool Room & Training Centre
Rajajinagar Industrial Estate
Bangalore - 560 010



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

Govt. Tool Room and Training Centre

(An Indo-Danish Project).

Govt. Polytechnic Premises, Pala Road, Hanagal. Dist. Haveri Tel.: 74110 33510, 99021 01010 e-mail: gttchanagal@gmail.com

Our Ref.

GTTC/IC/21-22/013

Date: 20/11/2021

CERTIFICATE

This is to certify that **Mr. MALLIKARJUN K BANAGONDE**, bearing **USN: 1DA19ME413**, of final year Bachelor of Engineering (B.E) in Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bangalore affiliated to Dr. Ambedkar Institute of Technology, Bangalore, Karnataka has undergone Internship training on "CNC PROGRAMMER" at our organization for a period of 4 weeks and has successfully completed internship during the academic year 2021-2022.

We wish all the best for your future endeavours.



Authorized Signature

Head Office: Rajajinagar Industrial Estate, Bangalore - 560 010.

Tel.: 23152118 / 23152119 / 23152346 / 23157189 Fax: 080-23301683 E-mail: gttcb@dataone.in

A Scientific & Industrial Research Organisation, Recognised by Govt. of India

GSTIN: 29AACFW7088E1ZQ



9, Karihobana Halli, Andrahalli Main Road, 4th Phase, Peenya 3rd Stage, Bangalore 560 091 E-mail: we3sol@gmail.com

Ph: 080 2836 2888 Mob: + 91 96113 28186

Ref:

Date:

05-10-2021

INTERNSHIP TRAINING CERTIFICATE

This is certificate is issued to the Mr.Rudresh.B (1DA19ME421) Bearing of B.E Mechanical Engineering Department, Dr. Ambedkar Institute of Technology. He has trained in our company for 1 month Internship at our organization from 01-09-2021 to 31-09-2021 during the course the following area was covered.

- 1. CNC Programming in Master cam software.
- 2. Working on Vertical Machining Centre machine.
- 3. Quality Inspection of Machined components.
- 4. Assemble of Machined components.

During the training he performed well in this work and we wish him all the best in future endeavours.



Mfrs of : Defence & Aerospace Precesions CNC Components, Die Moulds, Jigs & Fixtures



V.L.I. INDUSTRIES

No. 2&3, 1st cross, G.K.W. Layout , laggere , Pennya 2nd Stage, Bengalure -560 058 E-mail: vliindustry@gmail.com

Mfrs of: Precision Machinery Components, Milling & Jig Boring Works

Ref No. Dr.AIT/Mech/94/02/09/21

Date: 04/10/2021

TO WHOM IT MAY CONCERN

This is to certify that (Ms/Mr/Mrs. SAGAR B Bearing USN 1DA19ME422 student of Dr. Ambedkar Institute of Technology has successfully completed a summer internship in the field of Precision Machinery Components Milling & Jig boring work from 06/09/2021 to 03/10/2021 under guidance of Mr.Srinivas G.

During the period of her/his internship program with us, she/he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her/him every success in her life and career.

Form V.L.I. INDUSTRIES Ltd.

Authorized signature

NORTH PERIODE STORE BANGALORE STORE

Mob: 9886767109 9448848290



V.L.I. INDUSTRIES

No. 2&3, 1st cross, G.K.W. Layout , laggere , Pennya 2nd Stage, Bengalure -560 058 E-mail: vliindustry@gmail.com

Mfrs of: Precision Machinery Components, Milling & Jig Boring Works

Ref No. Dr.AIT/Mech/94/02/09/21

Date: 04/10/2021

TO WHOM IT MAY CONCERN

This is to certify that (Ms/Mr/Mrs. SYED ANWAAR ASHRAFF Bearing USN 1DA19ME428 student of Dr. Ambedkar Institute of Technology has successfully completed a summer internship in the field of Precision Machinery Components Milling & Jig boring work from 06/09/2021 to 03/10/2021 under guidance of Mr.Srinivas G.

During the period of her/his internship program with us, she/he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her/him every success in her life and career.

Form V.L.I. INDUSTRIES Ltd.

N-2056389280

Authorized signature

VTU-NASD/INTERNSHIP/09/CNCINT2170B13



Balavant k. Patil

CTO, VTU-NASD

Visvesvaraya Technological University National Academy for Skill Development



Internship Completion Certificate

This Certificate has been issued to

Mr. / Ms. SUHAS A for a successful completion of Online Internship on

CNC Operations and Programming with "SATISFACTORY" performance Conducted for the Duration of 4 Weeks

from 13 September 2021 to 08 October 2021 organized by

VTU-National Academy for Skill Development, Dandeli-581325.

NATIONAL ACADEMY FOR SKILL DEVELOPMENT DANDELI

> Prof. Vishal Kulkarni Director, VTU-NASD

Dr. A. S. DeshpandeRegistrar, VTU

"Score card is attached along with this certificate and final grading is based on score card marks"



Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company Doddaballapura Road, Yelahanka, Bangalore – 560064, India Tel: 0091 -80 - 4284 1800 / 1802 Fax: 0091 -80 - 28460008

No. AIT 002

12th OCT 2021

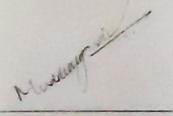


This is to certify that student **Sanjay HP** of Ambedkar Institute of Technology pursuing BE Mechanical Engineering has carried out In-Plant Training in our organization from 13-09-2021 to 12-10-2021.

During this period, he was Punctual, Enthusiastic, and Inquisitive. It was pleasure having him with us in this short period.

We wish him bright future and success in his future endeavors.

For FEDERAL-MOGUL GOETZE (INDIA) LIMITED



Muddegowda

Head – Human Resources Bengaluru Campus

Federal-Mogul Goetze (India) Ltd. A Tenneco Group Company

Regd. Office: DLF Prime Towers, 10 Ground Floor, F79 & 80, Okhla Phase – I, New Delhi– 110020. Tel: 011, 4905 7597

Corporate Identity Number: L74899DL1954PLC002452

Corporate Office: Paras Twin Towers, 10th Floor, Tower B, Sector 54, Golf Course Road, Gurgaon-122002 Tel.: +91.124.4784530, Fax: +91.124.4292840,www.federalmogulgoetzeindia.net.com







CERTIFICATE OF COMPLETION



This acknowledges that

CHIRAG G S

Has successfully completed internship program as Mechanical Engineer intern for the duration 07/06/2021 to 30/07/2021



Date





ZERODHA BROKING LIMITED

DP Of Central Depository Services (I) Ltd.

153/154, 4TH CRS, DOLLARS CLNY,OPP. CLARENCE PUBLIC SCHOOL,

J P NAGAR 4TH PHASE,

BANGALORE, KARNATAKA-560078

Phone -080 4718 1888, Email -dp@zerodha.com,

		1		1	T	1	
DP Id	12081600	Client 12212560 Sex	M DP Int Ref No AR0397	A/c Status Active	A/c Opening 16-APR-2019 Dt	Purchase Y Waiver	
BO Status	Individual	BO Sub Status	Individual-Resident	A/c Category Regular BO	Freeze Status Not Frozen	Registered For Easi N	
Nationality	INDIA	Stmt Cycle End of Month	Occupation STUDENT	Closure Init By	Account Closure Dt	Registered For Easiest	
SMS Registered	YES	SMS Mobile #####5223 No	UID	RBI Ref No	RBI Approval Dt	Mode Of Operation	
BSDA Flag	No	RGESS Flag No	Pledge SI Flag No	Email D/L Flag Yes	Annual Report Flag	Electronic	
First Holder Name		SHAMIK PATIL		First Holder PAN	ENKPP7167L	Date of Birth 06-NOV-1999	
Second Holder Name				Second Holder PAN			
Third Holder N	lame		Third Holder PAN				
Correspondence Address		53 PURTHAGERI		Permanent Address	53 PURTHAGERI		
		GADAG, 582114, KARNATAK	A, INDIA		GADAG, 582114, KARNATAKA, INDIA		
Phone/Fax		7996985223 / /					
Email		SHAMIKPATIL123@GMAIL.COM					
Bank Details		STATE BANK OF INDIA		Bank A/c Type	Savings Bank Account		
		GADAK, ., KARNATAKA, INDIA		Bank A/c No	33820171661		
				MICR Code	582002114		
				IFSC Code	SBIN0011275		
Nominee Name		%		Residual Sec Flag	Nominee's Guardian Details		
1. SUMA PATIL		100		Yes			
POA Details			•		•		
POA Master ID POA Name					POA Reference	Holder(1st-2nd-3rd)	
2208160000000022		ZERODHA BROKING LIMITE	:D		2208160000000022	First Holder	

Digitally signed by DS Zerodha Broking Limited 01 Date: 2021.11.17 15:08:00 IST Reason: "Regulatory"





Certificate of Internship

Congratulations, Prajwal

Electric Vehicle Technology

Course Completed on 25th Sept, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs



SkillDzire Technologies Pvt. Ltd, Bizness Square 16, HITEC City, Hyderabad, Telangana | 500081





ICMR Specimen Referral Form for COVID-19 (SARS-CoV2)

INTRODUCTION:

This form is for collection centres / labs to enter details of the samples being tested for Covid-19. It is mandatory to fill this form for each and every sample being tested. It is essential that the collection centres / labs exercise caution to ensure that correct information is captured in the form.

INSTRUCTIONS:

- Inform the local / district / state health authorities, especially surveillance officer for further guidance
- Seek guidance on requirements for the clinical specimen collection and transport from nodal officer
- This form may be filled in and shared with the IDSP and forwarded to a lab where testing is planned
- Fields marked with asterisk(*) are mandatory to be filled

SECTION A – PATIENT DETAILS							
A.1 TEST INITIATION DETAILS							
*Sample collected first time : Yes ☑ No □ If No, Patient ID :							
A.2 PERSONAL DETAILS							
*Patient Name: RAJATH J M *Age: 21 Years *Gender:Male							
*Occupation: Other *Mobile Number: <mark>8 9 7 0 2 3 0 6 7 1</mark> *Mobile Number belongs to: Self ☞ Family □ *Nationality: India							
*Present patient address: JANATASITE JAVAGAL, ARASIKERE *Downloaded Aarogya Setu App: Yes No Pincode: 573125 *District: HASSAN *State: KARNATAKA							
(These fields to be filled for all patients including foreigners) Aadhaar No. (For Indians): * Passport No. (for Foreign Nationals):							
*A.3 SPECIMEN INFORMATION FROM REFERRING AGENCY							
*Specimen type Throat Swab ☑ Nasal Swab ☐ Bronchoalveolar Endotracheal lavage ☐ Aspirate ☐ Nasopharyngeal Swab ☐							
*Type of test RT-PCR Rapid Antigen Test (RAT) *Collection date 16/12/2020 *Sample ID(Label) RAJATH21 If, RT-PCR test, name of lab where sample is sent for testing KRAG164 - Hassan Institute Of Medical Science, Hassan * Mode of Transport used to visit testing facility Symptomatic Asymptomatic Contact of a lab confirmed case: Yes No Please Note - Hospital form is required for the patients visiting OPD, IPD and Emergency and Community form is required for patients under containment zone/ Non-containment area/ Point of entry/ Testing on demand							
*A.3.1 For Community							
•							

Not Applicable

*A.3.2	For H	lospital
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Cat 4: Testing on Demand ✓

Please Note: Section I Section B3 needs to b			unity and Hospital setting	gs.							
Section B- MEDICAL INFORMATION											
B.1 CLINICAL SYMPT	TOMS AND SIGNS										
Cough			Loss of taste								
Sore throat			Diarrhoea								
Fever			Breathlessness								
Loss of smell			Other symptoms, please								
Date of onset of First S	Symptom:										
B.2 PRE-EXISTING M	EDICAL CONDITION	S									
Diabetes			Over weight/ Obesity								
Heart disease			Hypertension								
Chronic lung disease			Cancer								
Chronic Kidney diseas	е		Any other please specify								
B.3 HOSPITALIZATIO	N DETAILS										
Hospitalized : Yes ☐ N	lo 🗸		Hospital State:								
•			Hospital District:								
Hospitalization Date:			Hospital Name:								
•			•								
TEST RESULT (To be	e filled by Covid-19 to	esting lab facility)									
Date of sample receipt Sample Date of te		Date of testing	Test result	Repeat Sample	Sign of the						
	accepted/Rejected	(dd/mm/yy)	(Positive/Negative)	required (Yes/No)	Authority(Lab in charge)						
			·	·							

^{*} Fields marked with asterisk are mandatory to be filled





lms.decibelslab.com



Chris. 5.0

Suraj S D, Co-founder & CEO Decibels Lab Pvt Ltd

Decibels Lab Private Limited #2362, 24th main road 1st sector, HSR layout Bangalore, Karnataka, 560102 CIN:U80904KA2019PTC126675 This is to certify

Issued: 2021-07-09

Abhay P Devangavi

has undergone the internship in Decibels Lab Pvt Ltd, for the duration of 4 weeks from 07th June to 03rd July 2021

During the tenure intern was involved in,

Model Based Design of Mechanical Systems Internship

Project completed during the internship are Model-Based Design of NiMh Cell, Spring Mass Damper & Thermal modeling of house.





lms.decibelslab.com



Chy . 8.0

Suraj S D, Co-founder & CEO Decibels Lab Pvt Ltd

Decibels Lab Private Limited #2362, 24th main road 1st sector, HSR layout Bangalore, Karnataka, 560102 CIN:U80904KA2019PTC126675 This is to certify

Issued: 2021-08-22

Abhay P Devangavi

has undergone the internship in Decibels Lab Pvt Ltd, for the duration of 4 weeks from 17th July to 14th August 2021

During the tenure intern was involved in,

Python for Mechanical Engineers Internship

Project completed during the internship are, Kinematic system design of quadruped robots, Supercharger using Python & fluid flow over an Airfoil.



PRINSTON SMART ENGINEERS

Course4job.com

Empowering and Inspiring future professionals

Certificate of Internship HVAC Design

ABHAY P DEVANGAVI

Dr Ambedkar Institute of Technology

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined. Dec 3rd 2020 to Jan 3rd, 2021.











Skill India Scholarship

Certificate of Examination to

ABHAY P DEVANGAVI

———For participation in –

Electric Vehicle internship

On 75th Independence Day, we appreciate your effort to upskill yourself and compete with 1 Lakh+ engineers across India.

Keep Learning, Keep Exploring!

We wish you all the best for your future

S. No: ETGSKI14987

Mayank Arora

mercant

CEO & Founder

Date of Issue: 15th Aug 2021









Skill India Internship

Certificate of Completion to

ABHAY P DEVANGAVI

——for completing 1-month internship on—

FEA/CFD Internship

In this one-month program, you've shown grit, patience, curiosity and hard-work to learn skills that are important in Industry. And, this is just the start of journey to your dream career. Make your dream come true.

Keep Learning, Keep Exploring!

We wish you all the best for your future

S. No: ETGSI10371

Mayank Arora

mey out

CEO & Founder

Date of Issue: 29th Sept 2021











An Independent Research Organisation for Engineers Worldwide

This is to Certify that Mr./Ms.

ABHAY P DEVANGAVI

Belonging to Dr. Ambedkar Institute of Technology

Has successfully completed a 4-week Virtual Online Internship on

"3D Printing with FDM: Theory and Practice" With a Merit Score of 92 / 100









Mob: 9886767109 9448848290



V.L.I. INDUSTRIES

No. 2&3, 1st cross, G.K.W. Layout , laggere , Pennya 2nd Stage, Bengalure -560 058 E-mail: vliindustry@gmail.com

Mfrs of: Precision Machinery Components, Milling & Jig Boring Works

Ref No. Dr.AIT/Mech/95/02/09/21

Date: 04/10/2021

TO WHOM IT MAY CONCERN

This is to certify that (Ms/Mr/Mrs. ABHISHEK V Bearing USN 1DA19ME401 student of Dr. Ambedkar Institute of Technology has successfully completed a summer internship in the field of Precision Machinery Components Milling & Jig boring work from 06/09/2021 to 03/10/2021 under guidance of Mr.Srinivas G.

During the period of her/his internship program with us, she/he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her/him every success in her life and career.

Form V.L.I. INDUSTRIES Ltd.

·N. 3976 388380.

Authorized signature

Scanned with CamScanner

Reg. No. 08/27184



BHALKESHWAR SUGARS LTD..

Reg. Office, Basaveshwar Chowk, Near I.B. Bhalki - 585 328 BIDAR, Karnataka, India Factory at: Madkatti Cross, Bajolga. Tq. Bhalki Dist. Bidar

Office Ph.: 08484-269624

: 08484-269625

H.O.Ph.: 08484-262525

Email: bhalkeshwarsugars@gmail.com

AN INTEGRATED COMPLEX, FOR SUGAR, POWER, DISTILLERY & BIO-COMPOST

Ref. No.

BSL/PP/2021-22

5th October 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that MR.ADITYA S/O MALLIKARJUN a student of B.E. MECHANICAL has successfully completed his internship program as a Trainee in Power Plant Section (14 MW Co-Generation Plant) for the period from 01/09/2021 to 30/09/2021 01 (one) month under the guidance of Mr.Firoz Dhanure, Co-Gen Head at Bhalkeshwar Sugars Ltd., Madkatti Cross, Bajolga, Tq. Bhalki, Dist. Bidar (Karnataka).

During the period of his Internship with us he was found punctual, hardworking and good moral.

Wish him all the best in his future endeavors.

Hence it is certified.

for BHALKESHWAR SUGARS LTD.,

for BHALKESHWAR SUGARS LTD.,

(FIROZ DHANNURE), Co-Gen Head (Mentor. (RAMLING.S.H), Asst. General Manager.



DAR ORSE HYDRAULICS

THE HUB OF ENGINEERING SOLUTIONS

Mfrs. & Servicing: Hydraulic Torque Wrenches, Jack, Industrial Sockets Hydraulic Cylinders, Power Packs, Material Handling Equipment

Certificate of Internship

BARKATH KHAN (1DA18ME018)

in Dark Horse Hydraulics, at Bengaluru for the Period from 21/03/2022 to 21/04/2022 has Successfully Completed his internship on Design and Study of Hydraulic Power Pack and Applications This is to Certify that Final Year Mechanical Engineer Student of Dr. Ambedkar Institute of Technology, Bengaluru.

His Conduct and Progress during the above period was found to be SATISFACTORY.

B V MAN GNATH PROPRIETOR



#13, 1st Main Road, Kamakshipalya New Extension, Near Check Post, Bangaluru-560 079.

Date:22 Oct 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Anmol N student of Dr Ambedkar institute of technology, Bangalore has successfully completed his intership at Incresol Engineering Solutions Pvt Ltd from 22nd Sep 2021 to 22nd Oct 2021.

During this period, he worked in the Production and Quality department.

He has worked out under the guidance of Mr Vinaya AD – Operation Manager. During his association with us we found him to be hard working and a keen learner.

We wish him success in his future endeavours.

For Incresol Engineering Solutions Pvt. Ltd.

Director

For Incresol Engineering Solutions Pvt Ltd

Date:22 Oct 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Anmol N student of Dr Ambedkar institute of technology, Bangalore has successfully completed his intership at Incresol Engineering Solutions Pvt Ltd from 22nd Sep 2021 to 22nd Oct 2021.

During this period, he worked in the Production and Quality department.

He has worked out under the guidance of Mr Vinaya AD – Operation Manager. During his association with us we found him to be hard working and a keen learner.

We wish him success in his future endeavours.

For Incresol Engineering Solutions Pvt. Ltd.

Director

For Incresol Engineering Solutions Pvt Ltd



PERFECT ELECTRICALS

Plot No.152, Sompura 1st stage, KIADB Industrial Area, Dabaspete, Nelamangala Taluk, Bangalore-562111.

E mail Id: perfectswamy@yahoo.com

Contact No.08048145625

DATE: 30.09.2021

TO WHOMSOEVER IT MAY CONCERN

CERTIFICATE

This is to certify that Mr.Akhilesh.S, S/O.Sathyanarayana.K.C, Final Year BE Mechanical Engineering Student of Ambedkar Institute of Technology near Jnana Bharathi Campus, Bangalore-560056. Has undertaken Internship Training on CNC Machine operate field in M/s.Perfect Electricals, plot No.152, Sompura 1st Stage, KIADB Industrial Area, Dabaspete, Nelamangala Taluk, Bangalore-562111 from 1st September 2021 to 30th September 2021.

We wish him all the best in future endeavors.

Yours truly,

For PERFECT ELECTRICALS

(= 12 · S.H

Authorized Signatory



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AKSHITH KUMAR K N

DR AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA18ME010

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

September 1st to September 30th, 2021.









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Certificate of Internship HVAC DESIGN

YUVARAJACHARI. A

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA19ME435

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 9th to September 13th, 2021.









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DR AMBEDKAR INSTITUTE OF TECHNOLOGY

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AMODH C NADIGER

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA18ME012

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

May 10th,2022 to June 6th,2022.









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AMODH C NADIGER

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA18ME012

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

May 10th,2022 to June 11th,2022.









Certificate of Training

Hemanth Kumar H S,

student of Dr.Ambedkar institute of technology, has successfully completed a six weeks online training on **AutoCAD**. The training consisted of Interface, Drawing Aids & Basic Objects, Complex Objects & Object editing, Blocks & Annotations and Plotting & Introduction to 3D modules. We wish Hemanth all the best for the future.

Sarvesh Agrawal Founder & CEO, Internshala

Date of certification: 2020-10-02

Certificate no.: D6084ED1-051D-72E3-0B01-B1F227E37844

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



Certificate of Training

RAVIKUMAR B

from Dr.Ambedkar Institute Of Technology Bangalore has successfully completed a 6-week online training on **AutoCAD**. The training consisted of Interface, Drawing Aids & Basic Objects, Complex Objects & Object editing, Blocks & Annotations, Plotting & Introduction to 3D, and The Final Project modules.

In the final assessment, RAVI KUMAR scored 60% marks.

We wish RAVI KUMAR all the best for future endeavours.

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2021-11-18 Certificate no.: AF19A43F-C8EC-8C73-5AD9-F5EEA2DDE2DC

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Certificate of InternshipFull Stack Web Development

Bharath G

Dr Ambedkar Institute Of Technology

1DA18ME019

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 15th to September 15th, 2021.









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Certificate of Internship Cyber Security

BHARATH G

DR AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA18ME019

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 1st to August 31st, 2021.









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Certificate of Internship HVAC DESIGN

BHARATH K L

Dr Ambedkar institute of technology

1DA19ME403

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

Feb 15th to March 15th, 2022.









भारत हेवी इलेक्ट्रिकल्स लिमिटेड (भारत सरकार का उपक्रम) Bharat Heavy Electricals Limited (A Government of India Undertaking) इण्डस्ट्रियल सिस्टम्स ग्रुप INDUSTRIAL SYSTEMS GROUP

फोन / Phone: 080-2218 4040 फैन्स / Fax: 080-2356 2713 ई-मेल / e-mail: bgeorge@bhel.in मोबाइल/Mobile: 94490 68052 पो.बॉ. नं. 1249, प्रो. सी एन आर राव सर्कल, आईआईएससी पोस्ट, मल्लेख्वरम, बेंगलूरु-560 012. भारत P.B. No. 1249, Prof. CNR Rao Circle, IISc Post Malleshwaram, Bengaluru-560012. INDIA

Ref:IS:02:HRD:PT/886/2021-22

Date:17-09-2021

CERTIFICATE

This is to certify that, MR.SYED ATEEQUE MOINUDDIN QUADRI (1DA18ME129) who is pursuing his/her studies for the award of B.TECH(MECHANICAL) from DR AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALURU, has successfully completed his / her INTERNSHIP at INDUSTRIAL SYSTEMS GROUP, BHARAT HEAVY ELECTRICALS LIMITED, for a period of 4 WEEK/S from 18-08-2021 To 17-09-2021

PROJECT NAME: CHP and AHP project report.

C. Lanum It

Chief मानुमती है स्वायं स्वयं स्वयं स्वयं स्वयं स्वयं स्वयं स्वयं महापूर्विष्ट् / सार्क् सी.भानुमती, अपर महापूर्विष्ट् / सार्क् C. BANUMATHI , ADDL.GENERAL MANAGER/HR BHEL-ISG, IISC Post, BENGALURU-12

पंजीकृत कार्यालय 'बीएचईएल हाउस' सिरी फोर्ट, नई दिल्ली - 110 049

वेबसाइट : www.bhel.com कॉर्पोरेट पहचान संख्या : L74899DL1964GO1004281

Regd. Office: 'BHEL House', Siri Fort, New Delhi - 110 049

Website: www.bhel.com Corporate Identity Number: L74899DL1964GO1004281



Namoona 3D Labs

3D Printing | 3D Design | Consulting Engineering Research and Development Centre Visalakshinagar, Visakhapatnam, India – 530043 Phone: +91-6281460704, Email: nikhilc.freelance@gmail.com

Date: 31-July-2021

To Whom It May Concern

This is to certify that Mr./Ms. ____ABHAY P DEVANGAVI_____, belonging to the College/University Dr Ambedkar Institute of Technology, Affiliated to VTU, Bengaluru, bearing the Registration KEY 2IV1i2iltD is undergoing a 4-week Virtual Online Internship on "3D Printing A-Z: A practical guide to the world of making things" at our laboratory virtually from YouTube and he/she will be given a certificate upon completing the 4-week internship and upon completing the assignments which will be given in due course time.

This letter does not need a signature, scan the QR code to redirect to latest company news and updates on our LinkedIn Page and YouTube Channels



A. Nikhil Chaitanya Founder & CEO Namoona 3D Labs M.Tech (Machine Design), Andhra University, Visakhapatnam Ex-TCS Engineer in NPD and EIS





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Internship Certificate

This is to certify that Mr./Ms. Shivakumar P.K., 1DA18ME114, VI Semester B.E. Mechanical Engineering of Dr. Ambedkar Institute of Technology, Bengaluru has satisfactorily completed Internship on 'Competence in Automation Technologies - SCADA Based Automation System for

Steam Turbine Protection', during September-October 2021 (4 weeks).





VC/WS/HRD/2021

Date: 07-10-2021

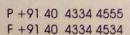
CERTIF ICATE

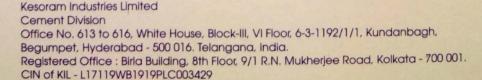
This is to certify that Mr. Abdul Salam (USN No. 1DA19ME400)
B.E.-Mechanical Engineering Student of Dr. Ambedkar Institute of
Technology, Bangalore has completed his Internship Training in our
Organization from 9th September 2021 to 7th October 2021.

He took keen interest during his Internship Training.

For : Kesoram Industries Ltd., Unit : Vasavadatta Cement, Sedam

Training Incharge









No.A/HR/509/ 99 /2021

October 30th ,2021

CERTIFICATE

This is to certify that **Mr. Sufiyan Ahmed S,** USN 1DA18ME121 a bonafide BE(Mechanical) student of Dr. Ambedkar Institute of Technology has successfully completed his Internship at Aircraft Division, HAL, Bangalore from 06.10.2021 to 30.10.2021.

2. We wish him All the Best, Good Luck and Success in his future endeavors.

Senior Manager (HR)

Mr.Sufiyan Ahmed S,

BE(Mechanical),

Dr. Ambedkar Institute of Technology,

Bangalore.

ನೋಂದಾಯಿತ ಕಚೇರಿ : ೧೫/೧, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು-೫೬೦೦೦೧, ಭಾರತ

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Registered Office: 15/1, Cubbon Road, Bengaluru - 560 001, India

ಸಿ ಐ ಎನ್/ सी आई एन / CIN: L35301KA1963GOl001622 ಇ / ई / E : hr_ac@hal-india.co.in



Certificate of Training

AMODH C NADIGER

from Dr. Ambedkar Institute Of Technology has successfully completed a 6-week online training on **CATIA**. The training consisted of Introduction to CATIA and Sketcher Workbench, Part Design Workbench, Wireframe and Surface Design, Assembly Workbench, Drafting Workbench, and Final Training Project modules.

In the final assessment, AMODH C scored 80% marks.

We wish AMODH C all the best for future endeavours.

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

ಎರಕ ಮತ್ತು ಹಲುಮೆ ವಿಭಾಗ फाउंड्री व फोर्ज प्रभाग FOUNDRY & FORGE DIVISION టింగಳೂರು సంశాణం वेगल्स कॉम्प्लेक्स/BANGALORE COMPLEX ಹಿಂದೂಸ್ಥಾನ್ ಏರೋನಾಟಿಕ್ಸ್ లిమిటిడా हिन्दुस्तान एरोनॉटिक्स लिमिटेड HINDUSTAN AERONAUTICS LIMITED



ಅಂಚೆ ಪೆಟ್ಟಿಗೆ ಸಂಖ್ಯೆ 1791, ಬೆಂಗಳೂರು-560 017,ಭಾರತ पोस्ट बैग सं.1791, बेंगलूरु - 560 017, भारत Post Bag No.1791, Bengaluru - 560 017, India **Ph.**: 91 - 80 - 2232 2223 2231 4261

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F/HR/G-13(C)/1392/2021

18th October, 2021

CERTIFICATE

This is to certify that Mr. Abhilash K A (USN:1DA18ME002) studying B.E (Mechanical Engineering) at Dr. Ambedkar Institute of Technology, Bengaluru has successfully completed his Hybrid Internship training at Foundry & Forge Division, Hindustan Aeronautics Limited, Bangalore Complex from 22nd September 2021 to 14th October 2021.

We wish all success in his future endeavors.

(SWAPNA M U)
SENIOR MANAGER (HR)

ఎం యూ శ్వబ్మా/एम व् स्वप्न/M.U.SWAPNA ియ వ్యవస్థాపకరు (ము నం)/वरिष्ठ प्रबंधक (भा सं//Senior Manager (HR) ఎఫ్ మత్తు ఎఫ్ వి ఖాగ/एफ व एफ प्रभाग/F&F Division ఎజ్ ఎ ఎల్ (జ సి)/एच ए एल (बी सी)/HAL (BC) టింగటిందు/बेंगलूर/BENGALURU-560017

Mr. Abhilash K A,
Dr. Ambedkar Institute of Technology,
BDA Outer Ring Road, Mallathahalli
BENGALURU – 560 056.

ನೋಂದಾಯಿತ ಕಚೇರಿ : ೧೫/೧, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು–೫೬೦೦೦೧, ಭಾರತ पंजीकृत कार्यालय : 15/1, कब्बन रोड़, बेंगलूरु - 560 001, भारत Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India CIN: L35301KA1963GOI001622 E(ई) : i.mohanlal@hal-india.co.in





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Akhilesh s

having CAN_14705774 has successfully completed training in

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Date of Issue: 30-11-2021

Place: 6th Floor. Arjun Complex, Shivranjani Cross Road, Ahmedabad, Gujarat 380009 Certificate Id: CAN_147057741441575



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1DA19ME408

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August 9th to September 13th, 2021.











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1DA18ME010

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August 9th to September 13th, 2021.









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S. No: <u>ETGSI13791</u>

Mayank Arora

mey out

CEO & Founder

Date of Issue: 29th Sept 2021









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Tele No.: (91) (80) 28396416, Telefax : (91) (80) 28376600 E-mail : globalmachines111213@gmail.com

Bangalore 26.10.2021

TO WHOM SOEVER IT MAY CONCERN

This is to certify that Mr. Ajayshankar.A (IDA, 18ME005) Mechanical Engineering Department, Dr. Ambedkar Institute of Technology, Bangalore 560 566 has done his internship in 'Various processes in Manufacturing of Machine Tools' at Global Machines, #11,12,13, Peenya, Nagasandra Post, Bangalore 560 073 from 27 September 2021 to 25 October 2021. He has worked on 'Various processes in Manufacturing of Machine Tools', and it was aimed at understanding the different process in manufacturing of machine tools. He has interacted with subject experts during his tenure with Global Machines. During his internship with us, he has demonstrated his self motivation skills to learn new ideas & skills. He was hardworking and his performance was excellent.

Thanking You,

() 600

For GLOBAL MACHINESAC

Chackochan C.A. (Managing Partner)

ಅಂಚೆ ಪೆಟ್ಟಿಗೆ ಸಂಖ್ಯೆ ೧೭೮೮, ಬೆಂಗಳೂರು-೫೬೦೦೧೭, ಭಾರತ पोस्ट बैग सं.1788, बेंगलूरु - 560 017, भारत

Post Bag No.1788, Bengaluru-560017, India

Ph.: 91-80-2231 1741 Fax: 91-80-2231 5188

No.A/HR/509/ 98 /2021

October 30th, 2021

CERTIFICATE

This is to certify that **Mr. Nikhil Suryan**, USN 1DA18ME070 a bonafide BE(Mechanical) student of Dr. Ambedkar Institute of Technology has successfully completed his Internship at Aircraft Division, HAL, Bangalore from 06.10.2021 to 30.10.2021.

2. We wish him All the Best, Good Luck and Success in his future endeavors.

Sonior Manager (HR)

Senior Manager (HR)

बी आरोग्य व्योति/ B AROGKIA 101HI वरिष्ठ प्रबंधक (मा सं)-एयरकाफ्ट प्रभाग Senior Manager (HR)-Aircraft Division प्रमण्डल (बी सी)/ HAL (EC)

Mr.Nikhil Suryan,

BE(Mechanical),

Dr.·Ambedkar Institute of Technology, Bangalore.

ನೋಂದಾಯಿತ ಕಚೇರಿ : ೧೫/೧, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು-೫೬೦೦೦೧, ಭಾರತ

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Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An autonomous institution, Aided by Govt. of Karnataka, Affiliated to VTU)

BDA Outer Ring Road, Near Jnana Bharathi Campus, Bengaluru – 560056



DEPARTMENT OF MECHANICAL ENGINEERING

An Internship Report on

"CNC PROGRAMMING & OPERATION"

By

NITHIN KUMAR B S

(1DA18ME073)

DEPARTMENT OF MECHANICAL ENGINEERING Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY Bangalore – 560056

2021 - 2022

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An autonomous institution, Aided by Govt. of Karnataka, Affiliated to VTU) BDA Outer Ring Road, Near Jnana Bharathi Campus, Bengaluru - 560056



Department of Mechanical Engineering

CERTIFICATE

Certified that the industry internship (Seventh Semester) entitled	is carried out by the
following bonafide student of Mechanical Engineering in partial fulfilment for the aw	ard of Bachelor of
Engineering, B. E (Mechanical) at Dr. Ambedkar Institute of Technology, Banga	alore, during the
academic year	

USN	Name of Student
1DA18ME073	NITHIN KUMAR B S

It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the project report.

The internship report has been approved satisfying the academic requirements prescribed for the said Degree.

Guide	Internal Examiner	HOD

INTERNSHIP CERTIFICATE



ABSTRACT

The internship at GOVERNMENT TOOL ROOM & TRAINING CENTRE - [GTTC], Kolar emphasizes on a production of all the components of CNC by casting process, their surface finishing by machining process and finally the assembly of all the CNC components and their testing through various quality process. Detailed explanation of the manufacturing, assembly and testing of CNC Machines of various capacities have been mentioned in the report. It is in reference to the 28 days in-plant training done in the foundry shop, machining shop, paint shop and assembly line area of the company.

During this training, we got to learn many new things about the CNC machine tools and the current requirements of companies. This training proved to be a milestone in our knowledge of present industry. Every say and every moment was an experience in itself, an experience which theoretical study can't provide.

ACKNOWLEDGEMENTS

It is one of the most difficult tasks in life to choose the appropriate words to express one's gratitude towards the beneficiaries. I take this opportunity to express my gratitude and appreciation to all those who directly or indirectly motivated and encouraged me during the internship.

This internship has had the help and support of several people whose time and expertise has facilitated us in the successful completion of our internship. We wish to thank all of them for their contributions.

I am very thankful to Principal-Mr. Rajanikanth & Guide-Mr. Hemanthraj for granting my industrial training in **GOVERNMENT TOOL ROOM & TRAINING CENTRE** - **[GTTC], Kolar.** and supporting me throughout my training.

Last but not the least I am very thankful to the company and the entire department Heads for their constant guidance. I feel very proud of being trainee of such a company.

NITHIN KUMAR B S 1DA18ME073

DECLARATION

I am **NITHINKUMAR B S** bearing USN.**1DA18ME073**, B.E of the **DR AMBEDKAR INSTITUTE OF TECHNOLOGY** here by declare that the Training Report entitled "**Training Report on CNC Programming & Operation**" is an original work and data provided in the study is authentic to the best of my knowledge. This report has not been submitted to any other Institute for the award of any other degree.

NITHIN KUMAR B S 1DA18ME073

Place: GOVERNMENT TOOL ROOM &

TRAINING CENTRE - [GTTC], Kolar,

Date: 03/01/2022 to 31/02/2022

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 - 2.2 COORDINATION SYSTEM
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- 6.3 G&M CODES AND THEIR GROUP
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1. INTRODUCTION

1.1 Company Profile

Government Tool Room and Training Centre (GTTC) was established in 1972 at Bangalore with the participation from the State Government of Karnataka, in collaboration with Government of Denmark under the Bilateral Development Co-operation Agreement. The excellent performance of GTTC, Bangalore and proactive State Government of Karnataka led to expansion, and a second unit of GTTC was started in 1992 with DANIDA assistance at Mysore.

GTTC is meeting the needs of industries which are developing due to proliferation of new technologies by skilling the students as per the requirements.

State Government of Karnataka has encouraged GTTC to start 20 more sub-centers, 5 upcoming project centers and a skill development center to train in the area of Precision Manufacturing and Tool and Die Making in Karnataka.

GTTC is an autonomous society, a recognized Scientific and Research Organization by the Government of India. GTTC is serving the industry by providing well trained skilled manpower in the area of Tool and Die Making, Mechatronics and Electronics.

GTTC having acquired mastery in Precision Manufacturing, mould, tool and die making technology, has blossomed into an epitome center for precision quality. It develops and manufactures sophisticated Aerospace components, Moulds, Dies and Tools.

Fully aware of the rapid advancement in technology all over the world, GTTC periodically adds new technologies to the existing set of advanced equipment like CAD / CAM, CNC machines for tooling, Precision Components, Laser for Industries, Rapid prototyping, vacuum casting etc.



1.2 Message from The Desk of Managing Director

Dear Students,

I welcome you to the family of students in GOVERNMENT TOOL ROOM & TRAINING CENTRE - [GTTC], Kolar. Our aim is to make a successive person through technical skill enhancement and technical qualification upgradation. after that level of opportunity is increased. GTTC Automation is providing Industry oriented training programs by wide experienced persons. I hope the programs offered by us will approach you as a successive suitable person for all type of industries like Automobile industries Export House etc. our instructional excellence is well regarded—over thousands of satisfied students/customers have benefited from it.

With Best Wishes for Your Carrier Sincerely Yours,

1.3 Mission and Vision of The Company

Our aim is to make a successive person through technical skill and technical qualification up gradation after that opportunity automatically invites for betterment. GTTC Automation Training Institute is providing job-oriented training programmers by wide experienced persons. This training program will approach you as a successive suitable person for auto industries, export houses, textile industries, medicine industries, rubber, plastic, and other areas.

- i. Have presence in all major engineering hubs globally.
- ii. Contribute humbly in making of a developed Nation by Technological advancements, catering to 20% of the Domestic Market, establishing Technology Centers in 10major cities.
- iii. Patronize technical education by Instituting a Machine Tool Academy.
- iv. Promote Eco-friendliness by developing energy efficient solutions.
- v. Facilitate all the team members to enjoy the higher standards of living for a happier& heal their life.
- vi. Create a work environment that fosters- passion, creativity and optimism with fun, respect and pride for all individuals.
- vi. Being exceptionally customer centric, delight all our customers by all mean sand action.
- viii. Deeply admire brand among the Machine Tool fraternity.

2. CNC WORK THEORY

- Computer Numerical control (CNC) is used to automate the machine tools that are operated by precisely programmed commands encoded on a storage medium, as opposed to controlled manually via hand wheels or levers, or mechanically automated via cams alone.
- Computers play an integral part of the control. In modern CNC system computer-aided design (CAD) and computer-aided manufacturing (CAM) programs are used for development and machining of the final finished product.
- The series of steps needed to produce any part is highly automated and produces a part that closely matches the original CAD design. Modern CNC mills differ little in concept from the original model built at MIT in1952.
- Mills typically consist of a table that moves in the X and Y axes, and a tool spindle that moves
 in the Z(depth).
- The position of the tool is driven by motors through a series of step-down gears in order to provide highly accurate movements, or in modern designs, direct-drive stepper motor or servo motors.
- Open-loop control works as long as the forces are kept small enough and speeds are not too great.
- On commercial metalworking machines closed loop controls are standard and required in order to provide the accuracy, speed, and repeatability demanded.
- As the controller hardware evolved, the mills themselves also evolved. One change has been to enclose the entire mechanism in a large box as a safety measure, often with additional safety interlocks to ensure the operator is far enough from the working piece for safe operation.

- Most new CNC systems built today are completely electronically controlled. CNC-like systems are now used for any process that can be described as a series of movements and operations.
- These include laser cutting, welding, friction stir welding, ultrasonic welding, flame and plasma cutting, bending, spinning, hole-punching, pinning, gluing, fabric cutting, sewing, tape and fiber placement, routing, picking and placing (PnP), and sawing.
- Most CNC machines use Siemens or Fanuc made control systems.
- For Fanuc generally the coding is done using G codes and M codes. G codes are used for machining operations and movement of the tools whereas M codes are used for controlling the spindle movement like on/off, rotation in clockwise or anti-clockwise direction and also for tool change operation.

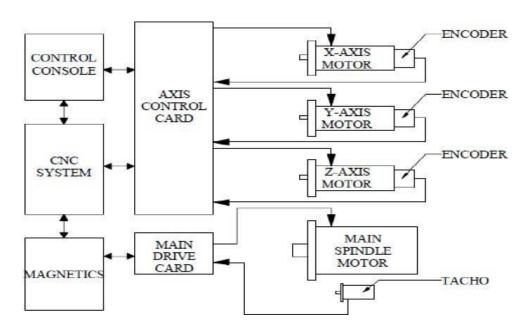
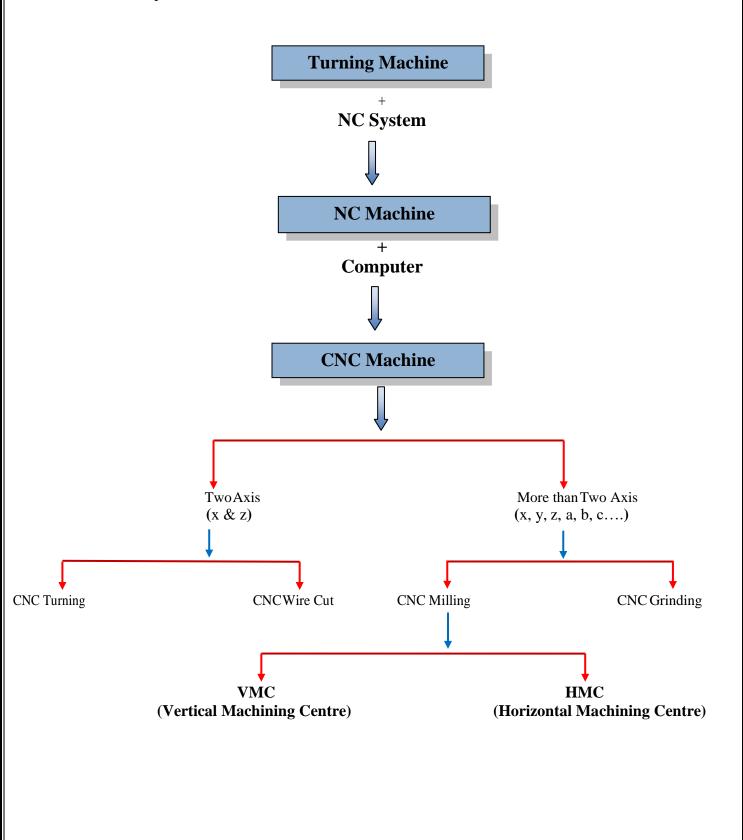


Figure 2: - Block Diagram of CNC Lathe

2.1 Classification of CNC Machine

CNC: - CNC is stand for "Computerized Numerical Control". A machine which is controlled by computer with Numerical values is known as CNC Machine.



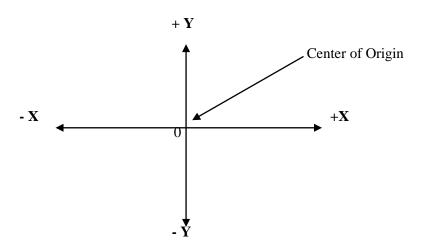
2.2 Coordinate System

Coordinate system is used for getting point to point movement of tool according to coordinates of points.

AXIS: - Horizontal and vertical lines are known as Axis.



Plane: - A plane has two axes.



Plane selection in CNC: -

Code	Plane selection	Used
G17	X-Y	VMC
G18	X-Z	CNC turning
G19	Y-Z	НМС

Table 2.2: - Plane Selection in CNC Lathe M/C.

Origin or Center Point: - It is the point at a plane where value of both axes zero.	
Coordinate: - The value of axis at any point of a plane known as coordinate.	
Types of Coordinates: -	
I. Absolute Coordinate: - The value of any point will be taken with respect to CenterPoint.	
II. Incremental Coordinate: - The value of any point will be taken with respect to previous point.	

3. COMPANY PRODUCTS

Company mainly has following categories of CNC machines:

3.1 Turning/Turn Mill Centers (TMC)

- i. Horizontal turning
 - a. Simple turning
 - b. Twin Spindle turning
 - c. Turn-Mill Centre
- ii. Vertical turning center
 - a. Inverted turning line machine
- iii. Oval turning center

This CNC machines are mainly used for facing, turning and center drilling operations. Oval Turning center is used for oval turning mainly for pistons of an engine.



Turning machine

3.2 Vertical Machining Centers (VMC)

i. 3-Axis machines

- a. C- frame machines (PX series, VMC series)
- b. Fixed table travelling column
- c. Double column machines
- d. High speed bridge type machines
- e. High speed gantry machines

ii. 5-Axis machines

- a. High speed bridge type machines
- b. Double column high speed machines
- c. High speed machines

Virtual Machining Center (VMC): -

VMC machines were developed for higher precision and high speed over TMC machines. It has moving table for easy access. The main difference between TMC and VMC is tool holder (Headstock) is rotating and job which clamped on pallet (table) moves in X-Y directions.

Many operations like facing, turning, milling, profile cutting, boring, drilling can be done easily with the help of VMC.

Mainly machine has three axis to move job and vertical column X-Y-Z. Usually pallet can only move in X-Y direction and vertical column can move in Z- direction. In addition to this 3 axis two more axis are available mainly for rotation and tilting action for easy machining of even complex profiles.



VMC machine



HMC machine

VMC has ATC (Automatic Tool Changer) controlled by three servo motors to automatically change the tool during machining process according to the requirement. Vertical spindle can rotate up to 15000 rpm. Maximum torque that is available in any axis is 700 Nm.

For fast work both two and six pallet VMC is also available which has APC (automatic pallet changer) in which after completion of one operation in one job, pallet is automatically rotated and another pallet is positioned for machining operation.

VMC can hold up to 120 tools in the tool post.

All movements of pallet and vertical column are through bolt screw. For less friction movement of saddle and pallet over Linear Motion Guide ways (LM) either pneumatic or hydraulic system is used. The whole VMC machine is operated by mainly Siemens and Fanuc controllers.

Job has to be cooled down while operation is being done on it due to friction between tool and job. Cooling system of job is also installed along with vertical column. Generally, 1000 liters coolant tank is used.

Usually cooling fluid is mixture of water and cutting oil of job. Scrap cleaning system is also installed in VMC so that accumulated scrap or chips can easily be drained by flow of fluid.

3.3 Horizontal Machining Centers (HMC)

☐ 4-Axis machines

HMC 560 is high speed, high precision 4 axis Horizontal Machining Center with worlds best available features to match the demanding requirement of the industry.

The machine has special features like Three Point Leveling, axis rotary table and Electro Spindle. Maximum of 10,000 rpm is available for spindle. It is available either for single, double or six pallets out of which all of them are rotary tables.

All the features are almost same as that of VMC but major difference is VMC has vertical spindle axis whereas HMC has horizontal spindle axis. Also HMC is used for machining bigger size components and is more precise.

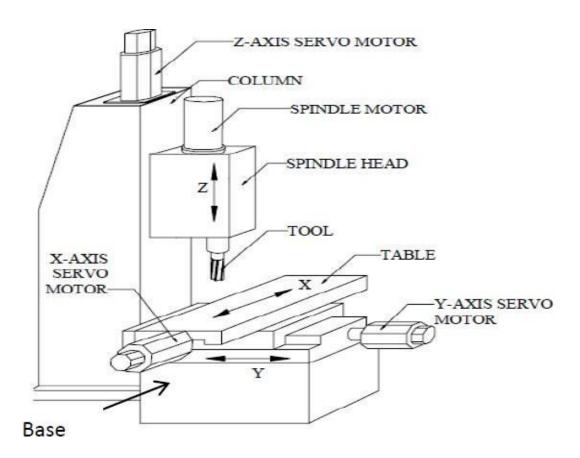


Figure 3.3: - General Sketch of CNC

4. COMPONENTS OF CNC

4.1 SPINDLE

The spindle is directly coupled with the spindle motor refer Figure 4 and avoids any errors in indirect drive mechanism.

This high-speed spindle is specially designed to meet the requirement of small component machining with high precision and dynamism.

Spindle is having BT-40 and 50Tool, HSK 100 interface taper for VMC machines.

4.2 SADDLE

Saddle is the part of CNC which is mounted on the Linea Motion guide ways (LM).

They provide for the linear motion in either X or Y axis.

4.3 BASE

Base is the base structure of CNC on which the entire operation of CNC is performed. It is made of rigid structure of Cast Iron because of good compressive strength and vibrational damping capacity.

4.4 LINEAR MOTION GUIDE WAYS (LM)

Linear motion guide ways or LMs are V or U-shaped solid structure mounted on base for saddle and on saddle for pallet to allow the saddle and pallet to slide over them linearly along X and Y axis respectively.

4.5 PALLET



Figure 4.5: - Pallet

Pallet is used to clamp or unclamp job piece. It is mounted on LM which are mounted on saddle. They are perpendicular to the LM mounted on base. That is, if one is in X- direction then other one is in Y- direction.

4.6 AUTOMATIC TOOL CHANGER

The tool changer is an umbrella type Servo ATC having a 12 Tool magazine.

The tool change time is 3.5 seconds. Its main function is to change the tool during the machining according to the requirement.

It works with 3 servo motors. One for vertical motion up-down, one for rotary action about Z-axis and one for clamping and releasing the tool.

4.7 HEADSTOCK

It supports chuck and its mechanism. It possesses system which clamps and de-clamps of Workpiece.



Figure 4.7: - Head Stock

4.8 TAILSTOCK

It possesses the supporting elements. It is also used for supporting the long job pieces and also used for centering and drilling purpose.



Figure 4.8: - Tail-Stock

4.9 TURRET ASSEMBLY

It is that part of machine which has tools to work on job. Generally, it has ten to twelve tools. It is used for holding the tools to carry out machining operations.



Figure 4.9: - Turret

4.10 CONTROLLER

It contains Siemens or Fanuc or Heiden aim controller which controls the whole machine.

4.11 PUMPS

There are generally two pumps in CNC. One is for hydraulic oil transmission and another for coolant circulation. Thus, pump keeps the cooling and the lubrication system of the CNC alive.

4.12 MOTORS

There are many different motors used mainly for revolving of chuck, another two for bolt screw, revolving of turret, and motion of worktable i.e. pallet in X and Y-axes.

4.13 OUTER SHEET METAL BODY

It provides safety to user and adds aesthetic value to the machine.

5. ASSEMBLY OF CNC MACHINE

☐ First step of assembly is to do three point leveling system by spirit level and then tight the other 3 points. Thus, the Base of CNC is fixed on the floor.

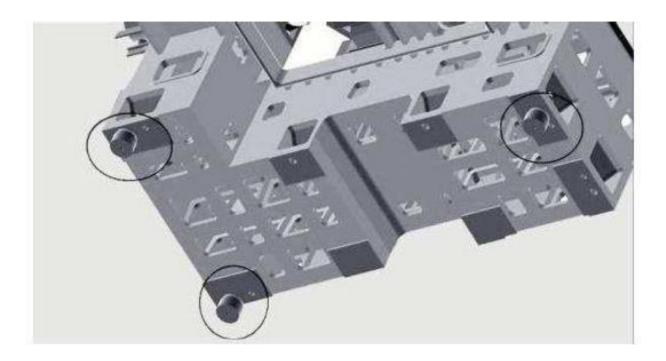


Figure 5.1: - 3-Point leveling

Second step is to scrapping the paint from guide-ways for fitting L.M. Then worker clean the surface by diesel and air cleaner. Then fit the L.M. and it is supported by eccentric head bolts.

Then worker uses spray-cleaner to remove dust and mounts saddle on it. After that, he does "Auto-collimator Test" for measuring allowances for top and side of L.M. Same process is carried out for L.M. of saddle and then bolt-screw is mounted on saddle with two bearing and its run-out testing is carried out and then again top and side of bolt-screw is maintained in tolerance limit with help of dial-gauge indicator.

Dial gauge indicator is most important testing device for which range is between 2 μm to 10 μm for different purposes.

After that saddle is mounted on CNC bed. Then bolt-screw is mounted on CNC bed for z-axis. Then the same process is carried out as it is carried out for bolt-screw of saddle. Then lock-nut is mounted on it.

If surface plate is not accurately machined, scrapping is carried out till it slides thoroughly on L.M.

During this process another worker mounts head-stock and tail stock on its base. After that chuck, pulley, motor and spindle is mounted on head-stock. Then mandrel is mounted on chuck.



Figure 5.2: - Chuck

Center line of headstock and tailstock must be co-lined, if not then it must carried out with the help of height-gauge. Then the ATC is mounted and at the same time all the wirings are connected with the motors and the pumps and then the entire electrical system is mounted.

After that telescopic cover is mounted on saddle to cover sliding mechanism from coolant.

After that hydraulic oil system is fitted with its all mountings like oil sump with nitrogen gas accumulator, solenoid valves, pipe.

Finally, the cold roll coil sheets are used for final guard (from metal chips and from water-oil coolant). For preventing leakage of coolant, copper stripes are rigidly fitted with silicone gel.

Then Siemens or Fanuc controller is attached to the machine. Finally, the doors are fitted so that entire machine remains closed during operation for the safety of the operators. Chip removal system and cooling fluid system was installed according to the demand.

Now the machine is started and data is loaded on it.

Some of the CNC machine models are:

VMC -640, DX-250, ATM-160, VMC-430, TM-020, AM-430, TMC-350

Given is an example of DX-200 and DX-250.

- i. Complete CNC machine Dx-200 is completely assembled within 6-7 days, while Dx-250 takes 8 to 10days.
- ii. Minimum rpm is 1 and maximum rpm can be up to 6000.
- iii. Hydraulic power pack is installed (hydraulic pressure up to 70 bar is generally used).
- iv. Hydraulic system used is oil based.
- iv. It uses 440V AC source.
- v. Has pneumatic pressured air cleaning gun.
- vi. For all movement bolt screw is used.
- vii. Tool post (turret) can hold up to 24 tools at a time.
- viii. Using the Siemens controller operation begins and can prepare most complicated operation with high accuracy.

Model Dx-250 is also available which is bigger in size than Dx-200, main difference in assembling method between them is, In Dx-200 saddle is assembled at inclination keeping base horizontal while in Dx-250 the saddle is assembled keeping the base inclined at 45degree for assembly ease.

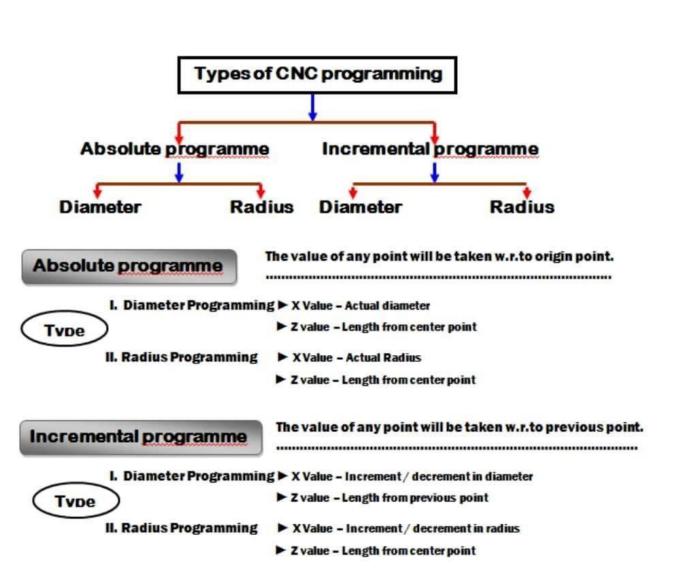
SADDILL

SAD

Figure 5.3: - Saddle (Model Dx-200)

6. TYPES OF CNC PROGRAMING

CNC Programming is made of blocks & blocks are made by commands. Commands are provided for different functions.



0.1 CINC I logianining Elements.	6.1	CNC	Programming Elements:
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- I. Command, II. Block,
- III. Different Addressing Code, IV. Program Scan,
- V. Program Header, VI. Program Footer
- **Command:** Command is the combination of alphabetic character & numerical value where alphabetic is used for address & numerical is used for value. Alphabet A to Z, numerical0-9. Ex G0 X4 Z2N1
- **Block:** Group of commands known as block. One block has one or more commands. Block is started from sequence Number & ended by end of block command Where sequence no.is optional.

III. Different Addressing Code: -

- **III.I** G-Code: These are Preparatory function codes & used for different function.
 - **A.** Axis Movement: G0/G01/G02/G03 codes are used for programming of any axis.
- \Box Code G00 = This code is used for tool positioning & free movement in air.

Format – G00 X... Z....

 \Box Code G01 = This code is used for linear movement of axis

Format – G01 X... Z...F....

 \Box Code G02 = This code is used for circular clockwise movement of any axis.

Format – G02 X... Z... R... F....

 \Box Code G03 = This code is used for circular anticlockwise movement of any axis.

Format – G03 X... Z... R... F....

 \Box Code G28 = This code is used for homing of any axis.

Format – G28 U0.0 W0.0.

B. Dwell Time:-

- ➤ G04 X.... (Time in second)
- ➤ G04 U.... (Time in second)
- ➤ G04 P.... (Time in m.s.)

C. Plane Selection: -

- \triangleright G17 X-Y plane selection
- ➤ G18 X-Z plane selection
- ➤ G19 Y-Z plane selection

D. Inch. /mm Mode Setting:-

- ➤ G20 program in inch.
- ➤ G21 program in mm.

E. Stroke Check Function: -

- ➤ G22 stored Stroke check function On
- ➤ G23 stored Stroke check function Off

F. Reference Return: -

- ► G27 reference return check
- ightharpoonup G28 1st ref. point
- ➤ G29 return from 0point
- ightharpoonup G30 2nd ref. point

G. Skip Function: -

➤ G31 – skip function

H. Thread Cutting: -

- ➤ G32 thread cutting
- ► G34 variable lead thread cutting

I. Tool Nose Radius: -

- ➤ G40 Tool nose radius compensation cancel
- ➤ G41 Tool nose radius compensation left
- ➤ G42 Tool nose radius compensation right

J. Coordinate System (50Series): -

- ➤ G50 coordinate sys. setting or max. spindle rpm.
- ► G52 local coordinate system setting
- ► G53 machine coordinate system setting
- ► G54 work piece coordinate system 1 selection
- ➤ G55 work piece coordinate system 2selection
- ► G56 work piece coordinate system 3selection
- ➤ G57 work piece coordinate system 4selection
- ➤ G58 work piece coordinate system 5selection
- ➤ G59 work piece coordinate system 6selection

K. Canned cycle (G70 & G80 Series): -

- ➤ G70 finishing cycle of G71, G72 & G73
- ➤ G71 stock removal of turning
- ► G72 stock removal of facing
- ➤ G73 pattern repeating
- ➤ G74 end face peck drilling
- ➤ G75 outer diameter / internal diameter drilling
- ➤ G76 multiple threading cycle
- ► G77 pocket cutting & turning
- ➤ G78 single threading cycle
- ➤ G79 pocket cutting in facing
- ► G80 canned cycle cancels

L. Mode Setting (G90Series): -

- ➤ G90 absolute programming
- ➤ G91 incremental programming
- ➤ G92 max. spindle rpm
- ► G94 feed mm perming.
- ➤ G95 feed mm prerevolution
- ► G96 constant surface speed control
- ➤ G97 cancellation of G96

- ➤ G98 return to initial point
- ➤ G99 return to repoint

III.II $\underline{M-Code}$: - These are miscellaneous function codes, and it is used for Start / Stop of any function.

- MO program stop
- ➤ MO1 program optional stop
- ➤ MO2 program optional end
- ➤ MO3 spindle on clockwise
- ➤ MO4 spindle on anti-clockwise
- ➤ MO5 spindle stop
- ► MO6 tool changing in VMC
- ➤ MO7 coolant on
- ➤ MO8 coolant on/off
- \triangleright MO9 cool off
- ➤ M19 spindle orientation
- ➤ M30 program end reset

Different addressing codes used in CNC: -

- \rightarrow A extra axis
- \triangleright B extra axis
- \triangleright C extra axis
- ► D cutter diameter in VMC
- \triangleright F feed on axis
- \triangleright G G code program
- \rightarrow H tool length offset in VMC
- ► I the value of X from start point of radius to center of radius.
- \triangleright J the value of Y from start point of radius to center of radius.
- \triangleright K the value of X from start point of radius to center of radius.
- ightharpoonup L loop in VMC
- \triangleright M m code groups
- \triangleright N sequence no.
- ➤ O program no.
- \triangleright P peak depth in X
- \triangleright Q peak depth in Z
- \triangleright R radius
- \triangleright S spindle
- ightharpoonup T tool no. & offset no. in CNC
- ightharpoonup U X axis value in incremental program
- ➤ V Y axis value in incremental program
- \triangleright W Z axis value in incremental program

- \triangleright X X axis value in absolute program
- \triangleright Y Y axis value in absolute program
- \triangleright Z Z axis value in absolute program
- **IV. Program Scan:** CNC M/c Scan the program sequentially in Blocks from Top block to bottom block.

V. Program Header: -

- Program No.
- Sequence No.
- > Cancellation command
- ➤ M/c Home position
- Tool & Offset selection
- Spindle R.P.M with direction
- Coolant On
- > Tool positioning

VI. Program Footer: -

- > Tool return to Home position
- > Spindle stop
- Coolant off
- ➤ Program End &Reset

6.2 Operating Mode: -

1. <u>Manual mode</u> – manual mode is used for individual start / stop of any function. Different functions:

Chuck clamp/D clamp – chuck is used for holding the job.

Method -

Step 1 – select jog mode

Step 2 – chuck clamp / D clamp by foot switch

Conditions – all axis should be at home.

Turret index – turret is the tool holding device used for holding the tool & supporting against cutting force.

Different stations are used for holding different tools 8 station turret is using in this machine. **Conditions** – all axis should be at home.

2. **<u>Auto mode –</u>** auto is used for automatic running of NC program.

Single block – block by block running program.

Method -

Step 1 – select auto

Step 2 – select single block

Step 3 – press cycle start button -> single block

Will work on pressing one time to the cycle start button for next block repeating cycle start button.

6.3 Some G – codes and their Group: -

GC	CODE SYST	ГЕМ	GROUP	FUNCTION
A	В	С		
G00	G00	G00		Positioning (Rapid Travels)
G01	G01	G01	-	Linear interpolation (cutting Feed)
G02	G02	G02	- 01	Circular interpolation CW
G03	G03	G03	_	Circular interpolation CCW
G04	G04	G04		Dwell
G10	G10	G10	00	Programmable data input
G11	G11	G11		Programmable data input cancel+E30
G18	G18	G18	16	ZX plane selection
G20	G20	G70	0.6	Input in inch
G21	G21	G21	06	Input in inch
G22	G22	G22	09	Stored stroke check function on
G23	G23	G23		Stored stroke check function on
G27	G27	G27	00	Reference position return check
G28	G28	G28		Return to reference position
G30	G30	G30		2nd,3rd & 4th reference position return
G31	G31	G31		Skip function
G32	G33	G33	01	Thread cutting
G34	G34	G34		Variable-lead thread cutting
G40	G40	G40	07	Tool nose radius compensation cancel
G41	G41	G41		Tool nose radius compensation left
G42	G42	G42		Tool nose radius compensation right
G50	G92	G92	00	Coordinate system setting or max spindle speed setting
G50.3	G92.1	G92.1		Work piece coordinate system preset
G52	G52	G52	00	Local coordinate system setting
G53	G53	G53	00	Machine coordinate system setting
G54	G54	G54		Work piece coordinate system 1 selection
G55	G55	G55		Work piece coordinate system 2 selection
G56	G56	G56	14	Work piece coordinate system 3 selection
G57	G57	G57	14	Work piece coordinate system 4 selection
G58	G58	G58		Work piece coordinate system 5 selection
G59	G59	G59		Work piece coordinate system 6 selection
G65	G65	G65	00	Macro calling
G66	G66	G66	12	Macro model call
G67	G67	G67	12	Macro model call cancel
G70	G70	G72		Finishing cycle
G71	G71	G73	00	Stock removal in turning
G72	G72	G74		Stock removal in facing

G73	G73	G75		Pattern repeating
G74	G74	G76		End face peck drilling
G75	G75	G77		Outer diameter / internal diameter drilling
G76	G76	G78	=	Multiple threading cycle
G90	G77	G20	0.1	Outer diameter / internal diameter cutting cycle
G92	G78	G21	01	Thread cutting cycle
G94	G79	G24	=	End face turning cycle
G96	G96	G96	02	Constant surface speed control
G97	G97	G97	02	constant surface speed control cancel
G98	G94	G94	05	Per minute feed
G99	G95	G95	03	Per revolution feed
	G90	G90	03	Absolute programming
	G91	G91	- 03	Incremental programming
	G93	G98	11	Return to initial level
	G99	G99	11	Return to R point level

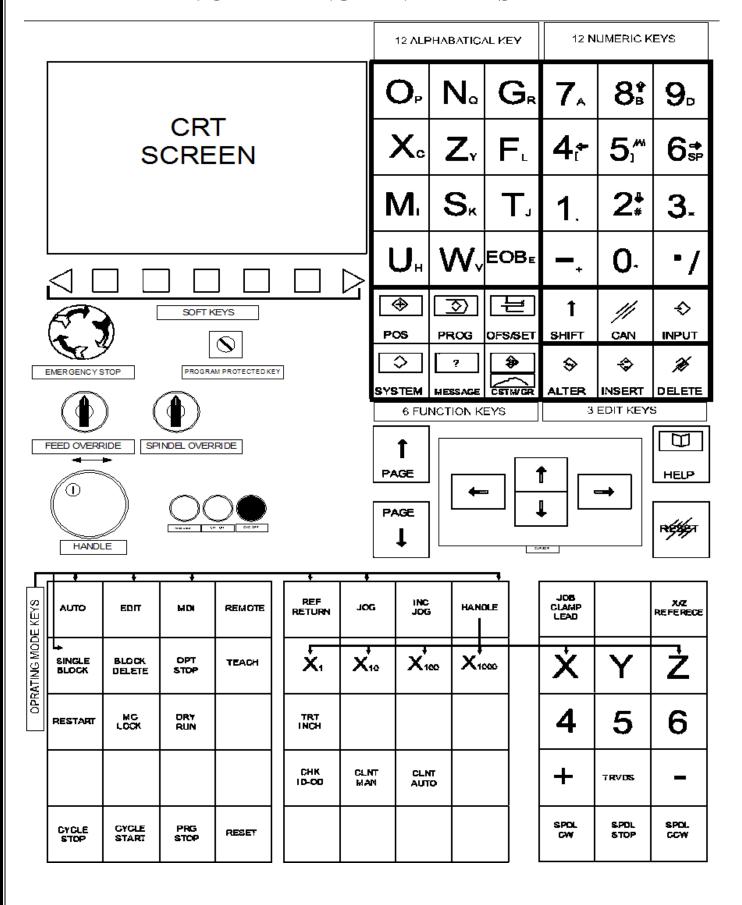
Table

M-Codes and their group

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- \triangleright MO9 cool off
- ➤ M19 spindle orientation
- ➤ M30 program end reset

7. OPERATING PANEL KEYS



8. TURNING PARAMETERS

The parameters of CNC turning depend on various aspects.

These include the material of the part and tool, tool size, finishing requirements, etc.

The main parameters for CNC turning are:

- **Spindle speed**. The unit is rotations per minute (rpm) and it shows the rotational speed of the spindle (*N*), thus also the workpiece. The spindle speed is in direct correlation with the cutting speed which also takes the diameter into account. Therefore, the spindle speed should vary to maintain a constant cutting speed if the diameter changes considerably.
- Workpiece diameter. As said, this plays an important role to arrive at the right cutting speed. The symbol is *D* and the unit is mm.
- Cutting speed. The equation for calculating the cutting speed is $V=\pi DN/1000$. It shows the relative speed of the workpiece to the cutting tool.
- **Feed rate**. The unit is mm/rev and the symbol is *s*. Cutting feed shows the distance the cutting tool moves per one turn of the workpiece. The distance is measured axially.
- Axial cut depth. Pretty self-explanatory as it shows the depth of a cut in the axial direction. It is the
 primary parameter for facing operations. A higher feed rate puts more pressure on the cutting tool,
 shortening its lifetime.
- Radial cut depth. The opposite of axial cut, it shows the depth of cutting perpendicular to the axis. Again, lower feed rates help to lengthen the lifetime of tools and secure a better finish.

DIFFERENT OPERATIONS

CNC turning is suitable for performing a wide range of operations.

Turning

The most common operation. A single-point tool moves along the axis of the workpiece to remove material from the part surface. It can produce various contours, like steps, tapers, etc. Normally, a few passes are necessary to reach the end result.

Because of the high precision attainable with turning, the <u>limits and fits</u> are usually chosen on a hole-basis system. Reaching the tight <u>tolerances with CNC turning</u> is easier than doing the same when drilling a hole.

Facing

Facing removes a layer of material from the end of the workpiece. Usually, the purpose is to arrive at a desirable surface finish. As the cutting depth does not have to be very deep, a single pass can perform that. The movement of the cutting tool is perpendicular to the spinning axis.

Grooving

Similarly, to facing, the tool moves perpendicularly to the spinning axis. Instead of cutting the end of the workpiece, groove cutting is performed somewhere along the side. A single point turning tool can perform the cut in a single pass, if the width of the cut is identical to the tool's width. Otherwise, multiple cuts are necessary.

Parting

Parting is also known as cutting off. The latter term describes this turning operation in a very straightforward manner. The process itself looks like grooving but the cutting tool will reach the axis of the part. Meaning that it cuts off a segment of the part.

Threading

Here we are still talking about an external operation. So threading is used to cut threads on the surface of a part. The specifics of the thread can be configured and reaching the final outcome may require several passes.

Drilling

The first internal operation on this list. When talking about traditional turning, drilling can be performed on the end of the workpiece, right on the axis. As the part is spinning anyway, the tool bit can remain stationary. Newer CNC lathe centres can use live tooling for producing perpendicular holes on the sides or elsewhere.

Boring

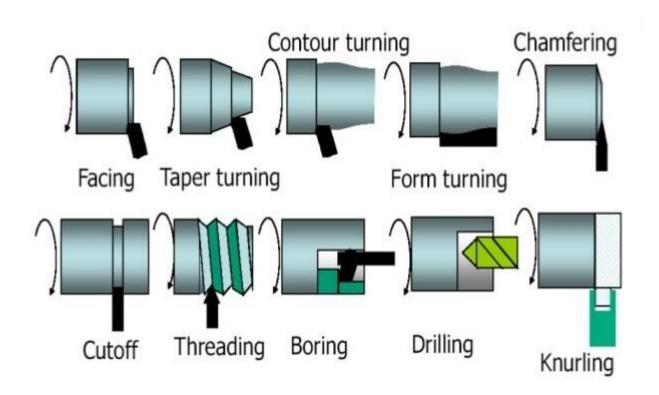
The opposite of turning. All the same features can be performed, just on the inner surface. Boring requires some drilling first, to make room for inserting the tools into the workpiece. From there, enlarging the hole with single point cutters is possible, along with adding steps, chamfers, etc.

Reaming

Reaming is a machining process whereby a multi-toothed fluted tool enters an existing hole to make it larger. The outcome has a very smooth surface finish with tight <u>engineering tolerances</u>. The operation itself looks similar to drilling from the outset.

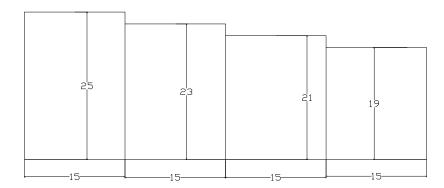
Tapping

Similarly, to reaming, requires a previously drilled hole. A tap enters the existing hole to give it an internal thread. Requirements for the existing hole are related to the thread size – it must be close to the tip of the thread teeth.



9. PROBLEMS BASED ON CNC TURNING

PROGRAM 1



Dimensions in mm

O0011;

N10 G28 U0.0 W0.0;

N20 G92 S1500;

N30 T0505;

N40 G96 S1000 F0.3 M03 M08;

N50 G90 G00 X52.0 Z3.0;

N60 G71 U0.2 R0.2;

N70 G71 P80 Q160 U0.1 W0.1;

N80 G01 X0.0 Z0.0;

N90 G01 X38.0 Z0.0;

N100 G01 X38.0 Z-15.0;

N110 G01 X42.0 Z-15.0;

N120 G01 X42.0 Z-30.0;

N130 G01 X46.0 Z-30.0;

N140 G01 X46.0 Z-45.0;

N150 G01 X50.0 Z-45.0;

N160 G01 X50.0 Z-60.0;

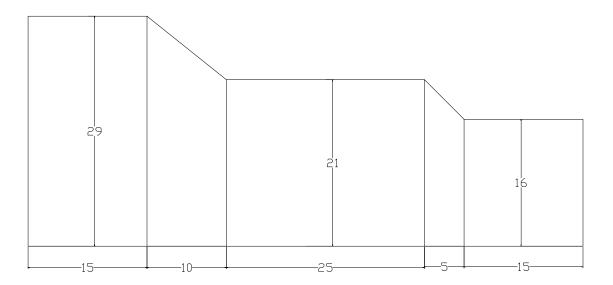
N170 G70 P80 Q160;

N180 G28 U0.0 W0.0;

N190 M09;

N200 M05;

N210 M30;



Dimensions in mm

O0021;

N10 G28 U0.0 W0.0;

N20 G92 S1500;

N30 T0505;

N40 G96 S1000 F0.3 M03 M08;

N50 G90 G00 X60.0 Z3.0;

N60 G71 U0.2 R0.2;

N70 G71 P80 Q140 U0.1 W0.1;

N80 G01 X0.0 Z0.0;

N90 G01 X32.0 Z0.0;

N100 G01 X32.0 Z-15.0;

N110 G01 X42.0 Z-20.0;

N120 G01 Z42.0 Z-45.0;

N130 G01 X58.0 Z-55.0;

N140 G01 X58.0 Z-70.0;

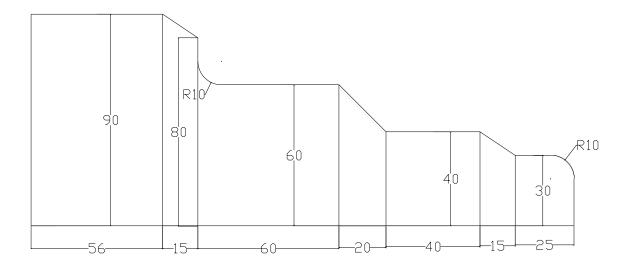
N150 G70 P80 Q140;

N160 G28 U0.0 W0.0;

N170 M09;

N180M05;

N190 M30;



Dimensions in mm

O0033;

N10 G28 U0.0 W0.0;

N20 G92 S1500;

N30 T0505;

N40 G96 S1000 F0.3 M03 M08;

N50 G90 G00 X182.0 Z3.0;

N60 G71 U0.2 R0.2;

N70 G71 P80 Q190 U0.1 W0.1;

N80 G01 X0.0 Z0.0;

N90 G01 X40.0 Z0.0;

N100 G03 X60.0 Z-10.0 R10.0;

N110 G01 X60.0 Z-25.0;

N120 G01 X80.0 Z-40.0;

N130 G01 X80.0 Z-80.0;

N140 G01 X120.0 Z-100.0;

N150 G01 X120.0 Z-150.0;

N160 G02 X140.0 Z-160.0 R10.0;

N170 G01 X160.0 Z-160.0;

N180 G01 X180.0 Z-175.0;

N190 G01 X180.0 Z-231.0;

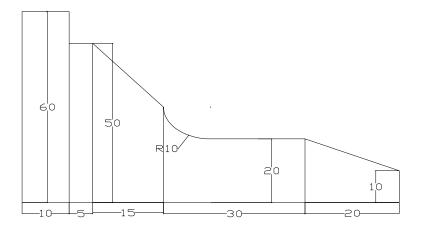
N200 G70 P80 Q190.0;

N210 G28 U0.0 W0.0;

N220 M09;

N230 M05;

N240 M30;



Dimensions in mm

O0035;

N10 G28 U0.0 W0.0;

N20 G92 S1500;

N30 T0505;

N40 G96 S1000 F0.3 M03 M08;

N50 G90 G00 X122.0 Z3.0;

N60 G71 U0.2 R0.2;

N70 G71 P80 Q160 U0.1 W0.1;

N80 G01 X0.0 Z0.0;

N90 G01 X20.0 Z0.0;

N100 G01 X40.0 Z-20.0;

N110 G01 X40.0 Z-40.0;

N120 G02 X60.0 Z-50.0 R10.0;

N130 G01 X100.0 Z-65.0;

N140 G01 X100.0 Z-70.0;

N160 G01 X120.0 Z-80.0;

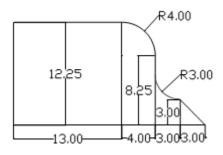
N170 G70 P80 Q160.0;

N180 G28 U0.0 W0.0;

N190 M09;

N200 M05;

N210 M30;



Dimensions in mm

O0027;

N10 G28 U0.0 W0.0;

N20 G92 S1500;

N30 T0505;

N40 G96 S1000 F0.3 M03;

N50 G90 G00 X26.5 Z3.0;

N60 G71 U0.2.R0.2;

N70 G71 P80 Q130 U0.1 W0.1;

N80 G01 X0.0 Z0.0;

N90 G01 X6.0 Z-3.0;

N100 G02 X12.0 Z-6.0 R3.0;

N110 G01 X16.5 Z-6.0;

N120 G03 X24.5 Z-10.0 R4.0;

N130 G01 X24.5 Z-23.0;

N140 G70 P80 Q130;

N150 G28 U0.0 W0.0;

N160 M05;

10. WORK DONE DURING INTERN

- 1. Analyzing G-codes & M-codes.
- 2.learnt to write program for different operations using co-ordinate system.
- 3.Executed in CNC Turning Machine.







11. RESULT & CONCLUSION

Hence, I have successfully studied about the CNC machine tool and their function. With their G & M codes and operation performed on this type of machine tool.

The importance of lathes and milling/turning machines even if they are conventional cannot be undermined. These machines have played a real important role in bringing about industrial revolution and have laid the foundations. But the bringing about of the new technology in the present era is very important. The conventional machines are required in small quantities whereas the CNC machines must be increased to improve the quantity and quality of production.

Turning is one of the pillars of the manufacturing industry. Getting precise results for axisymmetric parts is best done with that fabrication method. The flexibility and production capacity allows large-batch manufacturing with almost identical outcomes.

12. REFERENCES

- About Krishna Automation from –
 (http://www.krishnaautomation.com/aboutus-krishnaautomation.html)
- CNC Training at KITC in Gurugram
 (Gurgaon) Link -_
 http://www.kitc.in/index.html
- Auto CAD Software -https://www.autodesk.com/products/autocad/free-trial
- Feature Cam Software -_
 https://www.autodesk.com/products/featurecam/overvie
 w
- Power mill Software -_
 https://www.autodesk.com/products/powermill/overview
 w
- Figure No. 3.1.1 & 3.1.2 are from KITC.....Link -<u>http://www.kitc.in/Photogallery-</u>
 <u>KITC.html</u>
- Figure No. 12.1, 12.2, 12.3 & 12.4 are Created by Me through Various Designing Software's.
- Tool Holder Designation and Important abbreviation & symbols are provided by KITC.
- Faculty Members of Mechanical Department, RPSCET Balana,
 Mohindergarh, Haryana -123029



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KARTHIK S (1DA18ME051)

in Dark Horse Hydraulics, at Bengaluru for the Period from 21/03/2022 to 21/04/2022 has Successfully Completed his internship on Design and Study of Hydraulic Power Pack and Applications This is to Certify that Final Year Mechanical Engineer Student of Dr. Ambedkar Institute of Technology, Bengaluru,

His Conduct and Progress during the above period was found to be SATISFACTORY 13. V. H.C. RK Mey 1

PROPRIETOR

PH2

#13, 1st Main Road, Kamakshipalya New Extension, Near Check Post, Bangaluru-560 079.

GSTIN No: 29BPBPM2515M1ZP

• 9591976431 9035414890

darkhorsehydraulics22@gmail.com



Date: 12/10/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. VIGNESH PRABHU S (1DA18ME103), a bonified student at Dr-Ambedkar Institute of Technology done his Internship as Design and product development Intern at MASTIEBIKES PRIVATE LIMITED from 26 August 2021 till 10 October 2021.

During the period of his internship program with us, he has been exposed to different process and was found diligent, hardworking and inquisitive. He worked as Intern on "DESIGN OPTIMISATION TO IMPROVE PASSENGER SAFETY AND MANUFACTURING OF ELECTRIC BIKES". He also gave some valuable contribution towards Aesthetics and Marketing of our e-bikes. During his Internship, he has showcased his skills of effective problem-solving, Teamwork and Leadership.

His enthusiasm to learn new skills and his performance has exceeded our expectations. We wish him all the best for his future endeavors.

MASTIE BIKES PVT. LTD.

Director

Mr. Shravan BR Founder MASTIEBIKES வெண் ಸಂಶೋಧನೆ ಮತ್ತು ವಿನ್ಯಾಸ ಕೇಂದ್ರ(ಎ ಆರ್ ಡ ಸಿ)
विमान अनुसंधान एवं अभिकल्प केन्द्र (ए आर डी सी)
AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)
வருಸ ಸಂಕೀರ್ಣ/अभिकल्प कॉम्प्लेक्स/DESIGN COMPLEX
ಹಿಂದೂಸ್ಥಾನ್ ಏರೋನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
हिन्दुस्तान एरोनॉटिक्स लिमिटेड
HINDUSTAN AERONAUTICS LIMITED



ಮಾರತ್ತ್ ಹಳ್ಳಿ ಜೋಸ್ಟ್, ಬೆಂಗಳೂರು-560037, ಭಾರತ मारतहल्ली पोस्ट, बेंगलूरु -560037, भारत Marathahalli Post, Bengaluru -560037, India ದೂ /दूरभाष/Ph.: 91-80-22324312,22316774 ಘ್ಯಾಕ್ಟ್ / फैक्स /Fax:91-80-22314320

D/ARDC/HR/Proj/Cert/4448/21

06.10.2021

CERTIFICATE

This is to certify that **Ms Nanditha R** who is a student of B.E (Mechanical), Dr Ambedkar Institute of Technology, Bengaluru, has undergone **Internship Training** at HAL ARDC, Design Complex, Bengaluru from 08-09-2021 to 06-10-2021 on "**No-Pay-No-Fee-Basis**". She has been punctual, sincere and committed trainee. Her conduct has been Excellent.

The student brings in a lot of energy and enthusiasm in the work, she is structured in her approach and methodical in resolving a problem. She is resourceful and adaptive to working environment.

REAL SOURCES Department

(Prachi Dalvi)

Manager (HR)

ARDC, Design Complex.

ನೋಂದಾಯಿತ ಕಛೇರಿ : 15/1, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ प्रेगीकृत कार्यालय : 15/1, कब्बन रोड़, बेंगलूरु - 560 001, भारत Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India

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GSTIN: 29AACFW7088E1ZQ



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E-mail: we3sol@gmail.com

Ph: 080 2836 2888 Mob: + 91 96113 28186

Ref:

Date:

05-10-2021

INTERNSHIP TRAINING CERTIFICATE

This is certificate is issued to the Mr.Naveena.V (1DA19ME417) Bearing of B.E Mechanical Engineering Department, Dr. Ambedkar Institute of Technology. He has trained in our company for 1 month Internship at our organization from 01-09-2021 to 31-09-2021 during the course the following area was covered.

- 1. CNC Programming in Master cam software.
- 2. Working on Vertical Machining Centre machine.
- 3. Quality Inspection of Machined components.
- 4. Assemble of Machined components.

During the training he performed well in this work and we wish him all the best in future endeavours.



Mfrs of : Defence & Aerospace Precesions CNC Components, Die Moulds, Jigs & Fixtures



CERTIFICATE OF COMPLETION

This certificate is presented to:

SHIVAKUMAR P K

For successfully completing 1-month internship program of Drafting, Designing, 2D & 3D modeling using AutoCAD and Solidworks,

from mechanicalengineeringinternship.com





Issue Date: 13 nov 2021

Certificate ID: MEINOVC-31

Verify at: <u>verify@mechanicalengineeringinternship.com</u>



Date: 07/11/2021 Ref: SJCIT.BRAC/B2/3

Internship Certificate

This is to certify that Mr. PAVAN J bearing 1DA18ME076, has completed his four week internship program on "Automation Technology (Industrial Hydraulics, Pneumatics, Sensors and PLC)" during the period from 13th September 2021 to 13th October 2021; for a period of Four weeks.

The internship has been carried out at Regional Center of Competence for Automation Technologies, established at SJC Institute of Technology in collaboration with Bosch Rexroth (India) Limited. He has completed the internship successfully. We wish him all the best for his future endeavors.

Bosch Rexroth (India) Limited Bangalore

S.J.C.Institute of Technology Chickballapura



ID NO: 1190





Certificate No 13002



Bangalore Plant Dooravaninagar Bangalore-560016

HUMAN RESOURCES - EMPLOYEE DEVELOPMENT CENTRE

Certificate

This is to certify that

Mr. Sachin B Talakeri

B.E (Mechanical)

Of

Dr Ambedkar Institute of Technology – Bangalore
has successfully completed

Internship

During the period from 03/09/2021 to 01/10/2021

In the following areas

Telephones Defence Productions, Switching Access Products, Research & Development, Information Technology, Quality Assurance & IOT



Signature of the Trainee Date 01/10/2021

हैं।

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Bengaluru-16/बेंगलुरु-16

GSTIN: 29AACFW7088E1ZQ



9, Karihobana Halli, Andrahalli Main Road, 4th Phase, Peenya 3rd Stage, Bangalore 560 091 E-mail: we3sol@gmail.com

Ph : 080 2836 2888 Mob : + 91 96113 28186

Ref:

Date:

05-10-2021

INTERNSHIP TRAINING CERTIFICATE

This is certificate is issued to the Mr.Naveena.M.R (1DA19ME416) Bearing of B.E Mechanical Engineering Department, Dr. Ambedkar Institute of Technology. He has trained in our company for 1 month Internship at our organization from 01-09-2021 to 31-09-2021 during the course the following area was covered.

- 1. CNC Programming in Master cam software.
- 2. Working on Vertical Machining Centre machine.
- 3. Quality Inspection of Machined components.
- 4. Assemble of Machined components.

During the training he performed well in this work and we wish him all the best in future endeavours.

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Date: 30/08/2021

TO WHOM IT MAY CONCERN

This is to certify that Mr. Nithish Mithra J, student of Dr. Ambedkar Institute of Technology has completed internship in the Automobile Work Shop from 2nd April 2021 to 26th May 2021.

During the period of his internship program with us, he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

For Fortune Motors

Authorized Signature

N. verwellellery.

N. verentrus

For FORTUNE MOTORS

Proprietor



Project / Internship Guide

15/09/2024

Place : Bengaluru

Date :



ead (HR/CLD)

CENTRE FOR LEARNING AND DEVELOPMENT

BHARAT ELECTRONICS LIMITED (A Govt. of India Enterprise, Ministry of Defence) Jalahalli Post, Bengaluru - 560 013, India

Certificate

This is to certify that
Sri./Smt/Kum. VIVEK. G. S
Ref No 1410/CLD/ HR/2021-22/24/090
student of DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
BANGALORE
carried out Project Work Internship on Overview
OF NAVAL SYSTEMS (SACS)
BU B
in NS (SACS) & PLECTRONICS, BANK
SBU/CSG of BEL, Bengaluru from 16th August 2021
to 15th SEPTEMBER 2021
He/She was regular and punctual in his/her attendance
and his/her conduct was satisfactory during the period.
D. markamar. D.

Abeyaantrix SoftLab OPC Private Limited

Reg No:U72900KA2018OPC114372, www.asoftlab.com, Banglore Davanagere



Date: 1-2-2021

Sub: Course Completion Letter

This is to certify Mr. VINAY KUMAR M G (1DA19ME431) of Dr. AMBEDKAR Institute of Technology, BANGLORE studying in his 5th semester B.E. in the Mechanical Engineering, has successfully completed his course "EMBEDDED SYSTEM FOR BEGINNERS" under the guidance of Mr. MANTESH SHIRUR - Team Lead for IOT division of Abeyaantrix SoftLab OPC Private Limited, Davanagere, during the period from 25th of November 2020 to 25th of December 2020.

During the course he was exposed to our new IOT team activities. We found him extremely inquisitive and hard working. He was very much interested to learn the functions of our IOT team and also put his efforts to accomplish his assigned tasks.

His association with us was very fruitful, we wish him all the best in his future endeavor.

For Abeyaantrix Softlab

Abeyaantrix Softlab (OPC) Private Limited # 1810/77, 17th Cross, Anjaneya Badavane

DAVANAGERE-577004, Ph: 9972140390

Mr. Shivaraj. V.

Product Application Manager.



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Date: 15/06/21

CERTIFICATE

This is to certify that Mr. Rajesh K .USN 1DA18ME094, a bonafide BE (mechanical engineering) student of Dr Ambedkar institute of technology Bangalore has successfully completed His internship at UNIVERSAL ENTERPRISES Narasapura, Kolar, (Honda motor Company Ltd.) From 20-04-2021 To 10-06-2021

We wish him all the best, good luck and success in his future endeavors

Mr. Rajesh K BE Mechanical Engineering Dr Ambedkar Institute of Technology Bangalore

UNIVERSA

General Manager

BELATHUR INDUSTRIES



CERTIFICATE OF COMPLETION

This is to certify that

PAVAN P

has successfully completed their Internship Program from DECEMBER 2021 to JANUARY 2022.

Given this JANUARY Of 2022

POS NEDT 3rd Cross
Peenvalst Stage, 2nd Fock
BANGALORE-560 058

OWNER AND CEO

#720, Near 3rd Cross, PEENYA 1st STAGE, 2nd Block, BANGALORE KARNATAKA 560058 Ph no:-9880514777

Certificate No 13014

TOTAL SOLUTIONS

ID NO: 1194

ITI LIMITED



Bangalore Plant Dooravaninagar Bangalore-560016

HUMAN RESOURCES - EMPLOYEE DEVELOPMENT CENTRE

Certificate

This is to certify that

Mr. S Manjunatha

B.E (Mechanical)

Of

Dr Ambedkar Institute of Technology – Bangalore has successfully completed

Internship

During the period from 03/09/2021 to 01/10/2021

In the following areas

Telephones Defence Productions, Switching Access Products, Research & Development, Information Technology, Quality Assurance & IOT



Signature of the Trainee
Date 01/10/2021

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Dr Ambedkar institute of technology

1DA19ME423

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Intern Was Found To Be Good And Disciplined.

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VOLVO CONSTRUCTION EQUIPMENT

To,

Mr. Santosh USN: 1DA19ME424

Dr. Ambedkar Institute of Technology

Bangalore 560056



01st August 2021

Date

Sub: Internship / Project in Volvo CE India, Bangalore

Our Reference

Dear Santosh.

We refer to the request for permission to undergo Internship / Project.

We are pleased to consider your request and offer you internship / Project in Volvo CE India Pvt Ltd, Bangalore Operations. The duration of your project will be from 01st Aug 2021 to 31st Aug 2021 for a period of 4 weeks only. You need to be present 5 days in a week (Monday to Friday). You will report to Mr. Sanjay Raina – Head of Assembly & Paint-shop Volvo CE India. You will be in Volvo CE, Operations – Peenya facility in Bangalore.

During your internship, please note the following:

- Working hours 8.30am to 6.00 pm (Monday to Friday)
- Strictly adhere to Volvo Safety Protocol & Code of Conduct
- Dress code Business formals, safety shoes recommended
- Kindly sign in and sign out at the security office every day Exit Swipe with Access Card
- Please return Access card to the security office at exit each day
- Please make your own travel and accommodation arrangements
- During your tenure you will not be entitled to any stipend or monetary reward / reimbursement whatsoever.
- You will not be entitled to any medical reimbursement or other facilities applicable to Volvo CE employees
- Please note that this is not an offer of employment and hence your internship will terminate on 31st Aug 2021 without further extension.
- The company reserves the right to cancel / terminate before 31st Aug 2021 for any act of misconduct / negligence / or prolonged absence without prior information.
- On successful completion of your project and submission of the project report, you will receive a certificate of Internship.

Welcome to Volvo CE and good wishes during your project internship.

NDIA P

For Volvo CE India Private Limited

Raghavendra D K HR Administrator

Volvo CE India Private Limited, Peenya

www.volvoce.com



TO WHOMSOEVER IT MAY CONCERN

Date

Telephone Indialling

Telefax

Our Reference

31st Aug 2021

This is to certify that Mr. Santosh student of B.E sixth semester studying in Dr. Ambedkar Institute of Technnology, Bangalore, underwent his third year internship in Volvo CE India Private Limited, Peenya from 01st Aug 2021 to 31st August 2021 for a period of 04 weeks only.

He has successfully completed his third year internship study at Volvo CE India Peenya facility. He has satisfactorily completed his work assigned under the guidance of Mr. Sanjay Raina – Head of Assembly & Paint shop, Volvo CE India Private Limited. He has presented his complete project findings in report titled "Internship study of Volvo CE India, Bangalore plant"

During the above period, we found him to be disciplined and dedicated.

INDIA

VOLVO

We wish Mr. Santosh all success in his future endeavors.

for Volvo CE India Private Limited

Name:

Raghavendra D K

Title:

HR Administrator, Volvo CE India

Email-id: d.raghavendra@volvo.com

www.volvoce.com



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

Govt. Tool Room & Training Centre

(A Govt. of Karnataka Society)

(An Indo – Danish Project) Rajajinagar Industrial Estate, Bengaluru – 560 010, INDIA

Date: 24.09.2021

Internship Letter

Certificate of Competency is awarded for successful Completion of Course in Solidworks to Mr. Santosh (1DA19ME424) for the period of oz.og.zozi to 24.09.2021 at Govt. Tool Room & Training Centre, Bangalore.

Principal

Principal
Govt. Tool Room & Training Centre
Rajajinagar Industrial Estate
Bangalore - 560 010

Mob: 9980813159

MAHESH INDUSTRIES

No. 14, 16th Cross, Doddanna Industrial Estate, Vishwa Needam Post, Near Peenya 2nd Stage, Bangalore-560 091. E-mail: maheshindustries159@gmail.com

Ref.: Date:

Date: 03.02.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Niranjan. Y. P, pursing his Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bangalore has successfully completed the internship program at Mahesh Industries, Bangalore from December 21, 2021 to January 21, 2022.

His internship experience includes training with design team and familiarization to all the department and operational process, their management overview involved with the production process of the company.

We have found him to be a self-starter who is motivated, duty bound and Hard-working. He worked sincerely on his assignments and his performance was Par excellence.

We wish him best of luck for his future.

For MAMESAFINEDUSTRES

Proprietor

Certificate No 13014

SOLUTION SOLUTION

ID NO: 1194

ITI LIMITED



Bangalore Plant Dooravaninagar Bangalore-560016

HUMAN RESOURCES - EMPLOYEE DEVELOPMENT CENTRE

Certificate

This is to certify that

Mr. S Manjunatha

B.E (Mechanical)

Of

Dr Ambedkar Institute of Technology – Bangalore has successfully completed

Internship

During the period from 03/09/2021 to 01/10/2021

In the following areas

Telephones Defence Productions, Switching Access Products, Research & Development, Information Technology, Quality Assurance & IOT



Signature of the Trainee
Date 01/10/2021

CONTROL OF STREET

Issuing Andria Nelson C
CMR-Tech Harris PR
Chief Manager-Human Resourc
मुख्य प्रबंधक - मानव संसाधन
ITI Limited/ आईटीआई लिमिटेड
Bengaluru-16/बेंगलुरु-16

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2 : (0820) 2521320





SARVADA DISTILLERIES

Plot No. 29 & 30, KIADB Industrial Area, NANDIKUR - 574111, Kapu Taluk, Udupi District.

Date:05.04.2021

Ref: SD/GEN/03/2020-21

CERTIFICATE

This is to certify that Mr. Jagan Simha S , USN 1DA18ME047, a bonafide BE (Mechanical Engineering) Student of Dr.Ambedkar Institute of Technology, Bengaluru, has successfully completed his Internship at M/s, Sarvada Distillery, Nandikur, Udupi (Manufacture of Indian Made Liquor) from 05.03.2021 to 05.04.2021

We wish him all the Best, Good Luck and Success in his future endeavors.

Mr. Jagan Simha S

BE (Mechanical Engineering)

Dr.Ambedkar Institute of Technology,

Bengaluru.

For SARVADA DISTILLERIES

SRINIVAS K.S. General Manager (Admn)





Bangalore

22 Nov 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Akshayakumar Vaidya** (**IDA18ME009**), Mechanical Engineering Department, Dr. Ambedkar Institute of Technology, Bangalore – 560 056 has done his internship in "Systems & Solutions Operations Division" at Merck Life Science Pvt. Ltd. No. 50 A, 2nd Phase, Ring Road, Peenya, Bangalore – 560 058, from 01 Oct 2021 to 30 Oct 2021.

He has worked on a project titled "Custom Engineered Filtration Equipment's Projects Management – Insights" This project was aimed at understanding the End to End Project Management process for Custom Engineered Filtration Equipment. As part of the project, he had interacted with subject matter experts of each engineering domain viz Process, Mechanical, Electrical, Automation and understood the People, Process and Portfolio at high level.

During his internship with us, he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations, and he was able to complete the project on time.

We wish him all the best for his upcoming career.

Regards

Science

Dt:

Bengaluru

Ponraj Ponnusamy

Systems & Solutions Operations India

22 NOV ROSI

Mobile: +91 6362389862

MERCK

Merck Life Science Pvt Ltd.

50 A, 2nd Phase, Ring Road, Peenya, Bangalore – 560 058, India

E-mail: ponraj.ponnusamy@merckgroup.com

Website: www.merckgroup.com



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Hydraulic Cylinders, Power Packs, Material Handling Equipment

Certificate of Internship

DEEKSHITH G NAYAK (1DA18ME031)

This is to Certify that Final Year Mechanical Engineer Student of Dr. Ambedkar Institute of Technology, Bengaluru, has Successfully Completed his internship on **Design and Study of Hydraulic Power Pack** and **Applications** in **Dark Horse Hydraulics**, at Bengaluru for the Period from 21/03/2022 to 21/04/2022

His Conduct and Progress during the above period was found to be SATISFACTORY.

3.ve naije

PROPRIETOR



GSTIN No: 29BPBPM2515M1ZP

• 9591976431 9035414890

• darkhorsehydraulics22@gmail.com

GSTIN: 29AAUFM3211D1ZB

J.K. INDUSTRIES

No. 147/A. 3rd Crss, Peenya Industrial Estate, Peenya, BANGALORE - 560 058. Ph : 080-41171194, E-mail : jkindus10@gmail.com

Sef .:

Date:

INTERNSHIP CERTIFICATE

This is to acknowledge that **Shashank Gowda P K** bearing USN (**1DA12ME113**) pursuing **BE** (Mechanical) in Dr. Ambedkar Institute of technology has carried out internship in **J K Industries** from **5**th **of January 2022 to 4**th **of February 2022**. The course period of internship reflects his active participation in quality control, overview of CNC machine and analysis of computer aided drawings.

He was regular and punctual in his attendance and his conduct was satisfactory during the period.

For J. K. INDUSTRIES

Partners

Date: 05.02.2022

Place:Bengaluru

விண் ಸಂಶೋಧನೆ ಮತ್ತು ವಿನ್ಯಾಸ ಕೇಂದ್ರ(ಎ ಆರ್ ಡಿ ಸಿ)
विमान अनुसंधान एवं अभिकल्प केन्द्र (ए आर डी सी)
AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)
ವಿನ್ಯಾಸ ಸಂಕೀರ್ಣ / अभिकल्प कॉम्प्लेक्स / DESIGN COMPLEX
ಹಿಂದೂಸ್ಥಾನ್ ಏರೋನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
हिन्दुस्तान एरोनॉटिक्स लिमिटेड
HINDUSTAN AERONAUTICS LIMITED



ಮಾರತ್ತ್ ಹಳ್ಳಿ ಹೋಸ್ಟ್, ಬೆಂಗಳೂರು-560037, ಭಾರತ भारतहल्ली पोस्ट, बेंगलूरु -560037, भारत Marathahalli Post, Bengaluru-560037, India ದೂ/दूरभाष/Ph.: 91-80-22324312,22316774 ಫ್ಯಾಕ್ಸ್ /फैक्स/Fax:91-80-22314320

D/ARDC/HR/Proj/Cert/4/4/8/21

06.10.2021

CERTIFICATE

This is to certify that **Ms Vimala S** who is a student of B.E (Mechanical), Dr Ambedkar Institute of Technology, Bengaluru, has undergone **Internship Training** at HAL ARDC, Design Complex, Bengaluru from 08-09-2021 to 06-10-2021 on "**No-Pay-No-Fee-Basis**". She has been punctual, sincere and committed trainee. Her conduct has been Excellent.

The student brings in a lot of energy and enthusiasm in the work, she is structured in her approach and methodical in resolving a problem. She is resourceful and adaptive to working environment.



(Prachi Dalvi)

Manager (HR)

ARDC, Design Complex.

ನೋಂದಾಯಿತ ಕಛೇಠಿ : 15/1, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ पंजीकृत कार्यालय : 15/1, कब्बन रोड़, बेंगलूरु - 560 001, भारत Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India

ಸಿ ಐ ಎನ್/ सी आई एन / CIN: L35301KA1963GOI001622



Giti ITI LIMITED



Bangalore Plant Dooravaninagar Bangalore-560016

HUMAN RESOURCES - EMPLOYEE DEVELOPMENT CENTRE

Certificate

This is to certify that

Mr. Chandan P Kesthur

B.E (Mechanical)

Of

Dr Ambedkar Institute of Technology – Bangalore

has successfully completed

Internship

During the period from 03/09/2021 to 01/10/2021

In the following areas

Telephones Defence Productions, Switching Access Products, Research & Development, Information Technology, Quality Assurance & IOT



Signature of the Trainee Date 01/10/2021



Issuinी प्रशास अस्टी son C CMR-प्रिनिनिम्सिने से R Chief Manager-Human Resource मुख्य प्रबंधक - मानव संसाधन ITI Limited आईटी आई लिमिटेड Bangaluru-16/बेंगलुरु-16

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December 9th,2021 to January 13th,2022.





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September 1st to September 30th, 2021.









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Sl. No: RWF/M/TTC/21-22/11-1

Certificate

DATE: 30/09/2021

SSERTO

Technical Training Centre RWF, Bangalore-64

Rail Wheel Factory (indian Dallways)

G. Wilderska, State State - 568 ftp.

Dy. CME-QS/ Principal Technical Training Centre RWF, Bangalore-64

Dr. Ambedkar Institute of Technology, Bangalore - 560056 Department of Mechanical Engineering Daily Log Activity Report Company name SCANIA COMMERCIAL VEHICLES Company mentor/ Guide name HARIKUMAR

Period of Internship (in days)

60

DAY	DATE	START TIME	END TIME	ACTIVITY
Monda y	18/04/2022	9:00 AM	5:00 PM	Introduction a general overview of and company. Safety and briefing protective wear.
Tuesda y	19/04/2022	9:00 AM	5:00 PM	 General overview of the company. Breifing regarding working and different departments of the company.
Wednesd ay	20/04/2022	9:00 AM	5:00 PM	 Introduction to workshop. Observed the working of machines like air cooler.
Thursda y	21/04/2022	9:00 AM	5:00 PM	 Observed working of horizontal boring, slotting and radial drilling machine.
Friday	22/04/2022	9:00 AM	5:00 PM	 Experienced different machining processes performed on fuel injector setting process.

Dr. Ambedkar Institute of Technology, Bangalore - 560056 Department of Mechanical Engineering Daily Log Activity Report Company name SCANIA COMMERCIAL VEHICLES Company mentor/ Guide name HARIKUMAR

Period of Internship (in days)

60

DAY DATE		END TIME	ACTIVITY		
	TIME				
25/04/2022	9:00 AM	5:00 PM	Assisting in billing of materials.		
			Observing sales calls.		
			Understanding the alloting of workload.		
26/04/2022	9:00 AM	5:00 PM	 Understanding how classification of inventory is done and billing of materials is divided. 		
27/04/2022	9:00 AM	5:00 PM	 Observed the painting process; stress reliving, felting, primer coating, application of surfacer etc. 		
28/04/2022	9:00 AM	5:00 PM	 Observed the painting process; Paint application through spray guns. 		
			Assisted in stocking of inventory.		
29/04/2022	9:00 AM	5:00 PM	 Final coating of paint on product. Analysed drawing models of catelogued products in the design department. 		
	25/04/2022 26/04/2022 27/04/2022	TIME 25/04/2022 9:00 AM 26/04/2022 9:00 AM 27/04/2022 9:00 AM 28/04/2022 9:00 AM	TIME 25/04/2022 9:00 AM 5:00 PM 26/04/2022 9:00 AM 5:00 PM 27/04/2022 9:00 AM 5:00 PM 28/04/2022 9:00 AM 5:00 PM		

Department of Mechanical Engineering Daily Log Activity Report Company name SCANIA COMMERCIAL VEHICLES Company mentor/ Guide name HARIKUMAR

Period of Internship (in days)

60

DAY	DATE	START TIME	END TIME	ACTIVITY
Monda y	02/05/2022	9:00 AM	5:00 PM	Accompanied for the purchase of specific standard components and tools by the purchase department.
Tuesda y	03/ 05/2022	9:00 AM	5:00 PM	 Accompanied for sub contracting of casting components to the foundry. Tools and standard components inventory preparation.
Wednesd ay	04/ 05/2022	9:00 AM	5:00 PM	 Observed the working of radial drilling machine. Piston fixing.
Thursda y	05/ 05/2022	9:00 AM	5:00 PM	 Inspection of tools and workpieces is done. Working of gear box is observed.
Friday	06/ 05/2022	9:00 AM	5:00 PM	Gudgeon Pin wrapping

Department of Mechanical Engineering Daily Log Activity Report Company name SCANIA COMMERCIAL VEHICLES Company mentor/ Guide name HARIKUMAR

Period of Internship (in days)

DAY	DATE	START TIME	END TIME	ACTIVITY
Monda y	09/ 05/2022	9:00 AM	5:00 PM	 Setting up of tool and workpice in the lathe. Performing facing and turning operation on sample workpiece in the lathe.
Tuesday	10/ 05/2022	9:00 AM	5:00 PM	 Performing turning and tapering operation on sample workpiece.
Wednesd ay	11/ 05/2022	9:00 AM	5:00 PM	 Performing drilling and boring operation on sample workpiece using radial drilling machine.
Thursd ay	12/ 05/2022	9:00 AM	5:00 PM	 Understanding types of tools and areas of usage. Composition of components used.
Friday	13/ 05/2022	9:00 AM	5:00 PM	Assisting in the store.Inventory of tools and standard parts.

Dr. Ambedkar Institute of Technology, Bangalore - 560056 Department of Mechanical Engineering Daily Log Activity Report Company name SCANIA COMMERCIAL VEHICLES Company mentor/ Guide name HARIKUMAR

Period of Internship (in days)

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Dr. Ambedkar Institute of Technology, Bangalore - 560056 Department of Mechanical Engineering Daily Log Activity Report Company name SCANIA COMMERCIAL VEHICLES Company mentor/ Guide name HARIKUMAR

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Department of Mechanical Engineering Daily Log Activity Report Company name SCANIA COMMERCIAL VEHICLES Company mentor/ Guide name HARIKUMAR

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Department of Mechanical Engineering Daily Log Activity Report Company name SCANIA COMMERCIAL VEHICLES Company mentor/ Guide name HARIKUMAR

Period of Internship (in days)

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Thursd ay	12/ 05/2022	9:00 AM	5:00 PM	 Understanding types of tools and areas of usage. Composition of components used.
Friday	13/ 05/2022	9:00 AM	5:00 PM	Assisting in the store.Inventory of tools and standard parts.



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Visvesvaraya Technological University National Academy for Skill Development Dandeli



Online Internship on CNC Operations and Programming

SCORE CARD from 23 August 2021 to 17 September 2021

Name of Participant	MALAGOUD PATIL	Internship seat Number	VTU-NASD/INTERNSHIP/07/CNCINT2191B11

	Test																					
Test	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Average
Obtained Marks out of 10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Performance Chart						
Details	Performance					
Participant remaining ABSENT Throughout or Whose average score is "0"	Poor					
Participant whose average score is equal to 1 and <=4	Average					
Participant whose average score is equal to 5 and <=10	Satisfactory					

10					
SATISFACTORY					

Balavant k. Patil CTO, VTU-NASD Prof. Vishal Kulkarni Director, VTU-NASD





Visvesvaraya Technological University National Academy for Skill Development



Internship Completion Certificate

This Certificate has been issued to

Mr. / Ms. MALAGOUD PATIL for a successful completion of Online Internship on

CNC Operations and Programming with "SATISFACTORY" performance Conducted for the Duration of 4 Weeks

from 23 August 2021 to 17 September 2021 organized by

VTU-National Academy for Skill Development, Dandeli-581325.

SKILL DEVELOPMENT DANDEL

Balavant k. Pati

Prof. Vishal Kulkarni Director, VTU-NASD Dr. A. S. Deshpande Registrar, VTU

"Score card is attached along with this certificate and final grading is based on score card marks"





Visvesvaraya Technological University National Academy for Skill Development



Internship Completion Certificate

This Certificate has been issued to

Mr. / Ms. MALAGOUD PATIL for a successful completion of Online Internship on

CNC Operations and Programming with "SATISFACTORY" performance Conducted for the Duration of 4 Weeks

from 23 August 2021 to 17 September 2021 organized by

VTU-National Academy for Skill Development, Dandeli-581325.

SKILL DEVELOPMENT DANDEL

Balavant k. Pati

Prof. Vishal Kulkarni Director, VTU-NASD Dr. A. S. Deshpande Registrar, VTU

"Score card is attached along with this certificate and final grading is based on score card marks"



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

Govt. Tool Room and Training Centre

(An Indo-Danish Project)

Govt. Polytechnic Premises, Pala Road, Hanagal. Dist. Haveri Tel.: 74110 33510, 99021 01010 e-mail: gttchanagal@gmail.com

Our Ref. GTTC/IC/21-22/014

Date: 20/11/2021

CERTIFICATE

This is to certify that **Mr. MALLIKARJUN BANGARER**, bearing **USN: 1DA19ME412**, of final year Bachelor of Engineering (B.E) in Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bangalore affiliated to Dr. Ambedkar Institute of Technology, Bangalore, Karnataka has undergone Internship training on **"CNC PROGRAMMER"** at our organization for a period of 4 weeks and has successfully completed internship during the academic year 2021-2022.

We wish all the best for your future endeavours.



Authorized Signature



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

Govt. Tool Room and Training Centre

(An Indo-Danish Project).

Govt. Polytechnic Premises, Pala Road, Hanagal. Dist. Haveri Tel.: 74110 33510, 99021 01010 e-mail: gttchanagal@gmail.com

Our Ref.

GTTC/IC/21-22/013

Date: 20/11/2021

CERTIFICATE

This is to certify that **Mr. MALLIKARJUN K BANAGONDE**, bearing **USN: 1DA19ME413**, of final year Bachelor of Engineering (B.E) in Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bangalore affiliated to Dr. Ambedkar Institute of Technology, Bangalore, Karnataka has undergone Internship training on "CNC PROGRAMMER" at our organization for a period of 4 weeks and has successfully completed internship during the academic year 2021-2022.

We wish all the best for your future endeavours.



Authorized Signature

Head Office: Rajajinagar Industrial Estate, Bangalore - 560 010.

Tel.: 23152118 / 23152119 / 23152346 / 23157189 Fax: 080-23301683 E-mail: gttcb@dataone.in

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BENAKA INDUSTRIES

#112/53, 10th Cross, Doddanna Industrial Estate, Bangalore - 560091. Email: benakaindustries789@gmail.com

Date: 03.02.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Manoj M, pursing his Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bangalore has successfully completed the internship program at Benaka Industries, Bangalore from December 21, 2021 to January 21, 2022.

His internship experience includes training with design team and familiarization to all the department and operational process, their management overview involved with the production process of the company.

We have found him to be a self-starter who is motivated, duty bound and Hard-working. He worked sincerely on his assignments and his performance was Par excellence.

We wish him all the best for his future endeavours.

For Benaka Industries

Proprietor







Internship ID : TLINT/2021/0065

Awarded Date : 09/09/2021

Duration : 1 MON TH

Signature of Authority

Internship Certificate

This certificate is proudly presented to

		ABHAY P	DEVANGAVI	
for successful comple	tion of Interns	hip in MECHI	ANICAL DESIGN	
unde	r the guidance g	of TECHNOLO	GICS GLOBAL PVT.	LTD.
	Conducted betu	veen <u>09/08/2021</u>	to 09 09 12021,	GLOBAI .
or the student ofDx	Ambedkan	Institute OF	Technology	OCIONE TRA
inicate of IP500	Honeywell TRID!UM	PcVue Solutions	6	

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Telefax: 080-27971761

BMPL/INT/2021-22

DATE: 31-03-2022

To.

Head of the Department Department Of Mechanical Engineering Dr.Ambedkar Institute Of Technology, Mallathally, Bangalore-560056

Dear Sir/Madam,

Sub: Completion of Internship Course.

This is to certify that Mr. *Hariprasad* bearing USN number 1DA18ME041 student of VIII Semester B.E(MECH) at The Dr.Ambedkar Institute Of Technology, Mallathally Bangalore had undertaken Internship in our organization from 1st Feb 2022 to 31st March 2022. He has completed the internship course successfully to our satisfaction.

His conduct during tenures of his internship was "Satisfactory".

We wish him all the best in his career.

Regards

For Bangalore Metallurgicals Pvt Ltd

Authorised Signatory





www.bangaloremetallurgicals.com Email: prakash@bangaloremetallurgicals.com CIN: U27100KA1987PTC008190

no. 120, kamblipura gate, shidlagatta road, hasigala post, hosakote - 562 165 bangalore

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August 9th to September 13th, 2021.









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N N AMOGHA RAO

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA18ME066

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 9th to September 13th, 2021.









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NAVEENAKS

DR.AMBEDAKAR INSTITUTE OF TECHNOLOGY

1DA19ME415

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 9th to September 13th, 2021.









CAST CRAFT PRIVATE LIMITED

Date: 04.12.2021

TO WHOSOEVER IT MAY CONCERN

This is to certify that, Mr Shreyas Raju R K (1DA18ME116) student at Dr Ambedkar institute of technology done his internship on "Tool life measurement" on the component called Pedestal at Cast Craft Pvt Ltd from 1st September 2021 to 30th September 2021

During the period of his internship program with us, he has been exposed to CNC milling machining process, tools of various grades like milling inserts, cutters, carbide drills and cutting parameters used. Found taking interest to know more about work holding device and its importance in getting consistent quality and reduced machining time.

During his stay, he was enthusiastic to learn new things, found punctual and sincere.

We wish him all the best for his future endeavors.

For Cast craft Pvt Ltd

V B Nayak

Head operations



Govt. Tool Room & Training Centre Certificate of Competency

REGISTER No.: IDA18ME073

This is to certify that

MR./Ms. NITIN KUMAR BS

HAS UNDERGONE THE: INTERNSHIP: "CNC PROGRAMMING AND OPERATIONS"

DEPARTMENT OF MECHANICAL ENGINEERING

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE

Course for a period of ONE MONTH

From: 03.01.2022

To: 31.01.2022

AT GOVT. Tool ROOM & TRAINING CENTRE, KOLAR

For having completed the course successfully

HE/SHE is AWARDED WITH THIS CERTIFICATE OF COMPETENCY.

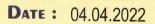
Co-ordinator

Principal

GENERAL MANAGER - TRAINING



ntific & Industrial Research Organisation" Recognised by Govt. of India





Dear ABHAY P DEVANGAVI

17th Aug 2021

OFFER LETTER FOR SKILL INDIA INTERNSHIP

Team ETG is committed to the cause of raising the ante of Engineering in India. This is in response to your application for summer internship with Elite Techno Groups. We would like to extend heartiest congratulations on your selection for the Industrial Project Based Online Internship.

Role: Electric Vehicles

Duration of the Internship will be 1 Month (4 Weeks) starting from 18-August-2021.

Role of the 'Skill India Electric Vehicles':

- 1. Work with the ETG team to research opportunities in domain.
- 2. Learn the technical concepts, industrial application involved in the respective industry
- 3. Work on various projects & prepare its result report

Congratulations! Looking forward to working with you.

Mayank Arora

CEO & Founder





Certificate of Internship

Congratulations, Pavan

Electric Vehicle Technology

Course Completed on 25th Sept, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs



SkillDzire Technologies Pvt. Ltd, Bizness Square 16, HITEC City, Hyderabad, Telangana | 500081









Certificate of Internship

Congratulations, Pavan R

Electric Vehicle Technology

Course Completed on 11th Sept, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs



SkillDzire Technologies Pvt. Ltd, Bizness Square 16, HITEC City, Hyderabad, Telangana | 500081



GSTIN: 29AAKFV0005A1Z0 Mob 9886767109
9448848290



V.L.I. INDUSTRIES

No. 2&3, 1st cross. G.K.W. Layout , laggery , Pennya 2nd Stage, Bengalure -560 058. E-mail: vitindustry@gmail.com

Mfrs of: Precision Machinery Components, Milling & Jig Boring Works

Ref No. Dr.AIT/Mech/94/02/09/21

Date: 04/10/2021

TO WHOM IT MAY CONCERN

This is to certify that (Ms/Mr/Mrs. SHREYAS R Bearing USN IDA19ME426 student of Dr. Ambedkar Institute of Technology has successfully completed a summer internship in the field of Precision Machinery Components Milling & Jig boring work from 06/09/2021 to 03/10/2021 under guidance of Mr.Srinivas G.

During the period of her/his internship program with us, she/he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her/him every success in her life and career.

Form V.L.1. INDUSTRIES Ltd.

Authorized signature

V.L.I.INDUSTRIES

V.L.I.INDUSTRIES

PROPRESSOR

BANGALOVE ST. 18

RANGALOVE ST. 18

RANGALOVE ST. 18

PROFORMA INVOICE

Seller's Name & Address:



MASSFAB INDUSTRIES

'SAVITHRI HOUSE', No. 49/50, 7th Cross,

Ramakrishna Layout, 60 Feet Road, Near Sumanahalli, Malagala Main Road , Magadi Road, BANGALORE - 560091.

KARNATAKA STATE, Code: 29 [INDIA].

Contact: +91 9986794764

e-Mail : massfabinfo@gmail.com

GSTIN: 29BPOPM8225H1ZC

Buyer's Name & Address:

No: MFI - PI 015

M/s.NOPO Nanotechnologies INDIA Pvt Ltd No.26-D, Veerasandra Indl Area, Electronic City Post, BANGALORE - 560100

Date:

24-7-2021

STATE : KARNATAKA, Code: 29
GSTIN/UIN : 29AADCN5913D1ZK

Please Receive the following Goods in Good Condition.

Purchase Order No : By Telephonic

Annexure / Sch No : Despatch Through :

SL.No.	Part No & Description	Qty	Unit	Rate/Unit	Amount
1	MFI HS 75mm Dia Round Heatsink Approx 16Lenght to 20Lenght of 300 Transportation on Your Account Payment Terms: 50% Advance and Balance Befo		Nos	3,912.00	78240.00
E & O.E		20			78240.00
	Details for NEFT \ RTGS : UNION BANK OF INDIA		CGST SGST		7041.60 7041.60

BANK Details for NEFT \ RTGS : UNION BANK OF INDIA

Bank A/c No : 510 101 006 648 336

Branch IFSC : UBIN0912298

Address : Kamakshipalya Branch BANGALORE - 560079

7041.60

Round Off (-) 0.20

92323.00

Remarks:

Amount in WORDS:

Rs. Ninety Two Thousand Three Hundred Twenty Three Only

NOTE: This is not a GST invoice

1.Goods Once sold will not be taken back or exchanged.

2. Our responsibility ceases after goods left our factory

3.Intrest will be charged on delayed payment @24% P.A

4.All Prices are ex-work, packing & forwarding TO PAY basic at your account

5.Material Once despatched to be collected within 2days from the TRANSPORT Office

For MASSFAB INDUSTRIES



Proprietor / Authorised Signatory





Certificate of Internship

Congratulations, Prajwal

Electric Vehicle Technology

Course Completed on 25th Sept, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs



SkillDzire Technologies Pvt. Ltd, Bizness Square 16, HITEC City, Hyderabad, Telangana | 500081





Certificate of Training

Kshitij Kulkarni

from Dr. Ambedkar Institute Of Technology has successfully completed an 8-week online training on

Programming with C and C++. The training consisted of Getting Started With Programming in C, Diving Into C

Programming, Fundamentals of Object Oriented Programming Using CPP, Diving into CPP Programming, and

Building Cricket Game Application modules.

In the final assessment, Kshitij scored 87% marks. We wish Kshitij all the best for future endeavours.

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2021-11-08 Certificate no.: E412710F-20D8-1ACF-21ED-50EF82F94C58

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ Govt. Tool Room & Training Centre

Opp. canara bank , B. M Road, Somanahalli, Maddur- 571429. Tel : 08232-298188 E-mail : gttcmaddur @ gmail.com

Our Ref. :

Date: 11-10-2021

CERTIFICATE

This is to Certify that Miss. Harshitha V Bearing USN: 1DA17ME056 of Mechanical Engineering Department, Dr. Ambedkar Institute of Technology, Bengaluru undergone an *Internship* at our organization from 06–09–2021 to 24–09–2021 during the course the following areas were covered

1. CNC Programming and operation

During the training her performance found to be satisfactory

Har! Sh Course Co-ordinator

Dy. Manager

12 gu Babul

Head Office: Rajajinagar Industrial Estate, Bengaluru - 560010. Website: www. karunadu.gov.in/gttc.
Tel: 23152118 -9/2315187 / 23152346 Fax: 91-080 23301683 email: gttc @ dataone.in

A Scientific and industrial research Organisation.recognised By Govt. of India



Course4job.com

Empowering and Inspiring future professionals

Certificate of Internship HVAC DESIGN

RAGHAVENDRA S

DR AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA19ME419

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined. March 1st to April 5th,2022.











Certificate of Internship

Congratulations, Rakesh Goundi

Electric Vehicle Technology

Course Completed on 25th Sept, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs



SkillDzire Technologies Pvt. Ltd, Bizness Square 16, HITEC City, Hyderabad, Telangana | 500081







Course4job.com

Empowering and Inspiring future professionals

Certificate of Internship HVAC DESIGN

Rohit Kumar K N

Dr Ambedkar Institute Of Technology

1DA18ME101

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 15th to September 20th, 2021.







The second secon

2: (0820) 2521320

E-mail: sarvada.udupi@gmail.com

SARVADA DISTILLERIES

Plot No. 29 & 30, KIADB Industrial Area, NANDIKUR - 574111, Kapu Taluk, Udupi District.

Date:05.04.2021

Ref: SD/GEN/05/2020-21

CERTIFICATE

This is to certify that Mr. Balajigowda H S , USN 1DA18ME016, a bonafide BE (Mechanical Engineering) Student of Dr. Ambedkar Institute of Technology, Bengaluru, has successfully completed his Internship at M/s, Sarvada Distillery, Nandikur, Udupi (Manufacture of Indian Made Liquor) from 05.03.2021 to 05.04.2021

We wish him all the Best, Good Luck and Success in his future endeavors.

Mr. Balajigowda H S

BE (Mechanical Engineering)

Dr. Ambedkar Institute of Technology,

Bengaluru.

For SARVADA DISTILLERIES

ŚRINIVAS K.Ś. General Manager (Admn)





ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

Govt. Tool Room & Training Centre

(A Govt. of Karnataka Society)

(An Indo – Danish Project) Rajajinagar Industrial Estate, Bengaluru – 560 010, INDIA

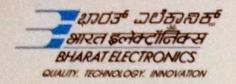
Date: 24.09.2021

Internship Letter

Certificate of Competency is awarded for successful Completion of Course in Solidworks to Mr. C Chethan (1DA19ME405) for the period of 02.09.2021 to 24.09.2021 at Govt. Tool Room & Training Centre, Bangalore.

Principal

Principal
Govt. Tool Room & Training Centre
Rajajinagar Industrial Estate
Bangalore - 560 010





CENTRE FOR LEARNING AND DEVELOPMENT

BHARAT ELECTRONICS LIMITED

(A Govt. of India Enterprise, Ministry of Defence)

Jalahalli Post, Bengaluru - 560 013, India

Certificate

This is to certify that

Sri./Smt/Kum. VISHWANATH ABHISHEK. M.

Ref No. 1410/CLD / HR/ 2021-22/24/096

Student of . DR. AMBEDKAR INSTITUTE OF TECHNOLOGY,

BANGALORE

carried out Project Work/Internship on . Overview.

OF ADVANCE DEFENCE Systems - Navy

in . ADSN

SBU/CSG of BEL, Bengaluru from . 18th August 2021

to . 17th Sep. 2021

He/She was regular and punctual in his/her attendance and his/her conduct was satisfactory during the period.

Project / Internship Guide

Date: 17-09-2021
Place: Bengaluru

Head (HR/CLD)

at Govt. Tool Room & Training Centre, Bangalore.

Principal

Government fact Reco & Training Gentre Industrial Setate, Rejajinagar, Bangalore - 500 044

Website: www.karnataka.gov.in/gttc Grams: G. T. T. C

Mob: 9886767109 9448848290



V.L.I. INDUSTRIES

No. 2&3, 1st cross, G.K.W. Layout , laggere , Pennya 2nd Stage, Bengalure -560 058 E-mail: vliindustry@gmail.com

Mfrs of: Precision Machinery Components, Milling & Jig Boring Works

Ref No. Dr.AIT/Mech/114/08/09/21

Date: 04/10/2021

TO WHOM IT MAY CONCERN

This is to certify that (Ms/Mr/Mrs. MOHAMMED FAISAL Bearing USN 1DA19ME414 student of Dr. Ambedkar Institute of Technology has successfully completed a summer internship in the field of Precision Machinery Components Milling & Jig boring work from 06/09/2021 to 03/10/2021 under guidance of Mr.Srinivas G.

During the period of her/his internship program with us, she/he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her/him every success in her life and career.

Form V.L.I. INDUSTRIES Ltd.

ANGALOPE-501 18

Authorized signature



PRINSTON SMART ENGINEERS

Course4job.com

Empowering and Inspiring future professionals

Certificate of Internship HVAC DESIGN

SHASHANK A

DR AMBEDKAR INSTITUTE OF TECHNOLOGY

1DA19ME425

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 9th to September 13th, 2021.

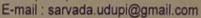




www.prinstonsmart.com



2 : (0820) 2521320





SARVADA DISTILLERIES

Plot No. 29 & 30, KIADB Industrial Area, NANDIKUR - 574111, Kapu Taluk, Udupi District.

Date:05.04.2021

Ref:SD/GEN/01/2020-21

CERTIFICATE

This is to certify that Mr. Shashank Gowda P K, USN 1DA18ME113, a bonafide BE (Mechanical Engineering) Student of Dr.Ambedkar Institute of Technology, Bengaluru, has successfully completed his Internship at M/s, Sarvada Distillery, Nandikur, Udupi (Manufacture of Indian Made Liquor) from 05.03.2021 to 05.04.2021

We wish him all the Best, Good Luck and Success in his future endeavors.

Mr. Shashank Gowda P K

BE (Mechanical Engineering)

Dr.Ambedkar Institute of Technology,

Bengaluru.

For SARVADA DISTILLERIES

SRINIVAS K.S. General Manager (Admn)







Congratulations, Mallikarjun

Electric Vehicle Technology

Course Completed on 12th july, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs









Congratulations, Kadappanavara Hanumantha

Electric Vehicle Technology

Course Completed on 12th july, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs













Congratulations, Prajwal Bm

Electric Vehicle Technology

Course Completed on 12th july, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs









Congratulations, Raghu V T

Electric Vehicle Technology

Course Completed on 12th july, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs













Congratulations, Ravikant R Patil

Electric Vehicle Technology

Course Completed on 12th july, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs









Congratulations, Rajath J M

Electric Vehicle Technology

Course Completed on 11th Sept, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs











Congratulations, Nishanth

Electric Vehicle Technology

Course Completed on 11th Sept, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs









Congratulations, Dhanushgowda K S

Product Design

Course Completed on 15 January 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs









Congratulations, Yathin MP

Product Design

Course Completed on 15 January 2022 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs







www.hal-india.co.in

ಬೆಂಗಳೂರು ಸಂಕೀರ್ಣ/बेंगलूर कॉम्प्लेक्स/BANGALORE COMPLEX ಹಿಂದೂಸ್ಥಾನ್ ಏರೋನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್ हिन्दस्तान एरोनॉटिक्स लिमिटेड

No.A/HR/509/ 97/2021

October 30th ,2021

CERTIFICATE

This is to certify that Mr. Mohammed Sumair, USN 1DA18ME065 a bonafide BE(Mechanical) student of Dr. Ambedkar Institute of Technology has successfully completed his Internship at Aircraft Division, HAL, Bangalore from 06.10.2021 to 30.10.2021.

We wish him All the Best, Good Luck and Success in his future endeavors. 2.

Seniør Ma\nager (HR)

बी आतेग्य हिंदोति। 8 वरिष्ठ प्रवेशक (ना स)-एयरकाण्ट प्रभाग Senior Manager (HR)-Aircraft Division एवएएन (वी सी)/ HAL (BC)

Mr. Mohammed Sumair,

BE(Mechanical),

Dr. Ambedkar Institute of Technology,

Bangalore.

ನೋಂದಾಯಿತ ಕಚೇರಿ : ೧೫/೧, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು-೫೬೦೦೦೧, ಭಾರತ

पंजीकृत कार्यालय : 15/1, कब्बन रोड़, बेंगलूरु - 560 001, भारत Registered Office: 15 /1, Cubbon Road, Bengaluru - 560 001, India

ಸಿ ಐ ಎನ್/ सी आई एन/CIN:L35301KA1963GOI001622 ಇ/ई/E:hr_ac@hal-india.co.in

Mob: 9980813159

MAHESH INDUSTRIES

No. 14, 16th Cross, Doddanna Industrial Estate, Vishwa Needam Post, Near Peenya 2nd Stage, Bangalore-560 091. E-mail: maheshindustries159@gmail.com

Ref.: Date:

Date: 03.02.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Surya K, pursing his Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bangalore has successfully completed the internship program at Mahesh Industries, Bangalore from December 21, 2021 to January 21, 2022.

His internship experience includes training with design team and familiarization to all the department and operational process, their management overview involved with the production process of the company.

We have found him to be a self-starter who is motivated, duty bound and Hard-working. He worked sincerely on his assignments and his performance was **Par excellence.**

We wish him best of luck for his future.

For MAHESH INDUSTRIES

Proprietor

పరక మత్తు కులుమే విధాగ फाउंड्री व फोर्ज प्रभाग FOUNDRY & FORGE DIVISION చంగళుడు గంకగణ్ / बॅगल्स कॉम्प्लेक्स / BANGALORE COMPLEX ఓండుమ్మాన్ పర్యేగానుటిక్ల లిమిటిడా हिन्दुस्तान एरोनॉटिक्स लिमिटेड HINDUSTAN AERONAUTICS LIMITED



ਚਰਸ਼ ਕੰਮ੍ਹਾਂ ਵਰਕੇ, 1791, ਹਰਜ਼ਾਮਕਰ:-560.017,ਸ਼ਾਰਡ ਪੰਜਾਰ ਵੈਸ ਜੋ 1791, ਵੇਜਜੂਦ - 560.017, ਸ਼ਾਰਰ Post Bag No. 1791, Bengaluru - 560.017, India Ph. : 91 - 80 - 2232.2223.2231.4261

"हिन्दी बढ़ेगी तभी, जब चाहेंगे सभी"

F/HR/G-13 (C)/1399 /2021

19th October, 2021

CERTIFICATE

This is to certify that Mr. Tejas B H (USN:1DA18ME130) studying B.E (Mechanical Engineering) at Dr. Ambedkar Institute of Technology, Bengaluru has successfully completed his Hybrid Internship training at Foundry & Forge Division, Hindustan Aeronautics Limited, Bangalore Complex from 20th September 2021 to 19th October 2021.

We wish all success in his future endeavors.

(SWAPNA M U) SENIOR MANAGER (HR)

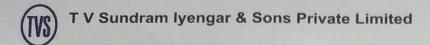
Mr. Tejas B H,
Dr. Ambedkar Institute of Technology,

BDA Outer Ring Road, Mallathahalli

BENGALURU - 560 056.

र्तकारकाकः इक्षेश्व : ೧೫/೧, इधुरु दर्मु, व्येवस्थवः-अ६००००, क्रारंड पंजीकृत कार्यालय : 15/1, कब्बन रोड, बेंगलूरु - 560 001, भारत Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India

CIN: L35301KA1963GOl001622 E(\$): i.mohanlal@hal-india.co.in





AGD/ HR&OPS/F22/38

18/09/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Ajayshankar A**, S/o **Akhilesh Kumar**, Final Year BE Mechanical Engineering student of Ambedkar Institute of Technology Near Jnan Bharathi Campus, Bangalore - 560 056 has undertaken Internship Training on **Mechanical field of Ashok Leyland Vehicle** in our T V Sundram Iyengar & Sons Private Limited, Aluva Paravoor Road, Alangad, Ernakulam from 6th September 2021 to 18th September 2021.

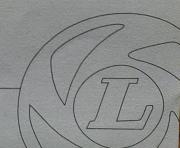
During the tenure he had successfully completed all assignments allotted and was found to be sincere and hardworking.

For T V SUNDRAM IYENGAR & SONS PRIVATE LIMITED

RAJENDRAN M R
MANAGER – HR & OPERATIONS



TV SUNDRAM IYENGAR & SONS PRIVATE LIMITED Authorized Dealer









TAKE IT SMART (OPC) PVT. LTD

Reg No: 150027 Date:20/04/2022

To Whom It May Concern

This is to Certify that Miss/Mr. VINAYAKA DESHPANDE Bearing USN 1DA18ME137 is a Bonafide Student of DR AMBEDKAR INSTITUTE OF TECHNOLOGY BANGALORE STUDYING MECHANICAL ENGINEERING has Undertaken Internship in "STUDY ON THE ADVANCED TECHNOLOGY USED IN BS6 VEHICLES" with us from 19TH MARCH 2022 to 19th APRIL 2022.

During the period of her/ his Internship program with us, she/ he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We take this opportunity to thank him/her and wish him/her all the best for his/her future.

For, Take it smart (OPC) Pvt.Ltd



Mr. MALLIKARJUN KUMBAR DIRECTOR

1274 2nd Floor, Sanitary Core, 3rd phase, Yelahanka New Town, Bengaluru, Karnataka - 560 064.



