



IBRAHIM MALIK MOHAMMAD

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NALLACHERUVU 24/2 LANE, GUNTUR, 522003, GUNTUR, India

● EDUCATION AND TRAINING

6 JUN 2017 – 6 JUN 2021 – ALAMATI ROAD, AVADI, TIRAVALLUR DISTRICT, CHENNAI, India

B.TECH IN MECHANICAL ENGINEERING – VEL TECH RANGARAJAN Dr.SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY

8.63 CGPA | veltech.edu.in

2 JUN 2015 – 15 MAR 2017 – NIDAMANURU, KRISHNA DISTRICT, VIJAYAWADA, India

INTERMEDIATE – SRI CHAITANYA BOYS JUNIOR COLLEGE

93.5%

9 JUN 2014 – 26 MAR 2015 – NALLAPADU, RURAL, ANDHRA PRADESH, GUNTUR, India

ICSE (INDIAN CERTIFICATE OF SECONDARY EDUCATION) – LOYOLA PUBLIC SCHOOL

85% | WWW.loyolapublicschool.org

● PROJECTS

22 FEB 2021 – 30 APR 2021

Analysis of Defects Through Design of Experiments in Forged Products

- Although Metal forging is an earliest known process, industries are suffering from the poor quality of forging because of a large number of parameters are involved in the process. The quality can be improved by reducing the defect through optimization of process parameters. In this project, a systematic procedure is given to analyze the defects and reduce it by optimizing the parameters.
- All these number of trials and save time and cost and give accurate results. Taguchi gives the optimum defect is found in the turbine shaft which is produced by using alloy steel. The quality control tools like Check Sheets, Histograms, Pareto Analysis and Fishbone Diagrams are used to analyze the defect and to find the parameters which affect the final quality of forging . Three parameters are selected which affect most to the final quality which is Run out, Under length, Flange Underfilling.
- Taguchi Technique is used for optimization of the parameters and Orthogonal Array is used for experimental purpose. In trial and error method a large number of shop floor experiments are required, Taguchi Orthogonal Array reduces value of parameters, after applying the optimum values on shop floor the defects are reduced up to a minimum. The optimized value of parameters for forging are Punch Material with 38-48 HRC i.e H13, and Washer Material 70 HRC i.e Stainless Steel.

Objectives:

- 1)To identify and study various defects predominantly effect the forged product.
- 2)To find the major defect which has major contribution in rejection of turbine shafts by using Taguchi analysis defect.
- 3)To optimize the defect and reduce the percentage of rejection in the turbine shaft which is produced by using alloy steel

Investigation of Surface Quality of Selective Laser Sintered Parts

- Selective Laser sintering (SLS) has been recognized as one of the best rapid prototyping (RP) technique for producing solid models, directly from computer-aided design data by fusing together different layers with the help of laser light. Further, RP has traditionally been used for producing a solid model for visualization purpose and assessing kinematic functionality.
- So, the model is required to have superior mechanical integrity and surface quality for handling and model testing. This study investigates surface roughness (SR) of parts produced by SLS process. The empirical models have been purposed to predict the feasibility of different process parameters viz., laser power, scan spacing, bed temperature, hatch length, and scan count on SR.
- Further, these parameters have been optimized using face-centered central composite design with response surface methodology. The optimized parameters have been verified by conducting confirmation experiments.

Objectives:

- 1) To identify various parameters predominantly effect on surface roughness of polyamide material.
- 2) To develop model for prediction of feasibility of various parameters.

● DIGITAL SKILLS

AutoDESK AutoCAD (Optimal Knowledge) | CATIA V5R21 | ANSYS 18.2 structural | Good knowledge of SolidWorks | Microsoft Office: proficient user of Word, Excel and Powerpoint | Problem solving and decision-making | Communication and Teamwork

● MANAGEMENT AND LEADERSHIP SKILLS

CADET

I had served for 3 years in NCC (NATIONAL CADET CORPS) it is also known as Second Line of Defence. Being a Cadet I had attended many social service activities like conducting Blood Donation Camps, being part of Swatch Bharath which is nothing but an initiative by Indian Government for clean and green society. I had attended several training camps in NCC which would lead to be part of contingent at Republic Day at Capital of India, Delhi.

● INTERESTS

Design of Automobile Parts.

Advanced Manufacturing Technology

Cycling

Athletics

● **LANGUAGE SKILLS**

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
HINDI	C2	C2	C2	C2	C2
TELUGU	C1	C1	C1	C1	C1
TAMIL	B2	A1	B1	B1	
GERMAN	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user