

PRAKASH SINGH

Trichy, Tamilnadu

+91-8979979200 prakashsingh.9psn@gmail.com Prakash Singh

EDUCATION

National Institute of Technology, Trichy

M.Tech./Manufacturing Technology CGPA - 08.26

2023 – 2025

Trichy, Tamilnadu

College of Technology, Pantangar

B.Tech./Industrial and Production Engineering CGPA - 07.13

2019 – 2023

Pantnagar, Uttarakhand

COURSEWORK / SKILLS

- Operation Research
- Engineering Economics
- Industrial Engineering
- Lean Manufacturing

PROJECTS

Influence of CNT Coating on the SS316L Implants made by LPBF

DEC 2024

- CNT coating using plasma spray coating over the sample in normal as well as in heat-treated form (annealing up to 1100 °C) can enhance the material's corrosion and erosion resistance.
- Coating will be providing a protective barrier against the harsh bodily fluids and mechanical wear.
- Tribological tests in dry and wet conditions (SBF) will be done on the sample using pin-on-disk tribometer.

Analysis of Parallel Supply Chain for the Perishable Items

MAY 2023

- The aim was to optimize and measure the performance of a parallel supply chain system using DEA analysis tailored specifically for perishable items in these regions.
- We tried to find out the key factors in the existing supply chain that affect the cost involved in the supply chain the most and propose alternatives for the optimization of the supply chain.

Ergonomics Evaluation of Assembly Line Worker Using RULA and REBA

JULY 2022

- As-it analysis of manufacturing process through method study and use of work flow diagram
- Calculated RULA and REBA score for each activity and RCA for high score activity.
- Reduce workers fatigue by 32.5 % and reduce high risk workstations from 31 to 21

Student Racing Vehicle for SUPRA 2023

JUNE 2023

- Led this project as the vice-captain and mainly worked on chassis design and material procurement.
- Design chassis using Fusion 360, Solidworks and static analysis was done by FEA using ANSYS software and fabricate the chassis too.

INTERNSHIP

NMPL (JBM Group)

JULY 2022 – AUG 2022

Summer Trainee

Pantnagar, Uttarakhand

- Observed the production process and PPC of the bike fuel tanks, mounting, handles and chassis.
- Worked with the new production line planning team of the fuel tank by understanding the existing line.
- Studied about different gauges used for the inspection of the components.

TECHNICAL SKILLS

Languages: HTML, CSS, Python, SQL

Engineering Software: SolidWorks 2023, Fusion 360, CREO, Ansys Workbench 2022

Other Softwares: MS Word, MS PowerPoint, MS Excel, Power BI

EXTRACURRICULAR

SAEINDIA COT Collegiate Club, Pantnagar

JULY 2022 – JUNE 2023

Chairperson

Pantnagar

- Got the opportunity to lead 55+ students in the technical club for organizing different activities and events.
- Designed and organized technical Idea Hackathon, quizzes, industrial visits, CAD workshops etc.
- We formed a team of 25 enthusiastic students for the National Level Competition-SAE SUPRA 2023.

CERTIFICATIONS

- Lean 6 Sigma White Belt - Six Sigma Online
- Design and Development of E-Bike chassis - FMAE
- eLearning program on MS Excel - TATA Steel
- One-week kick starter Workshop on 3D Printing - 3Ding