

MAYANK SINGH

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SUMMARY

As a dedicated B.Tech student in Mechanical Engineering, I possess a passion for precision and innovation in the world of engineering, I really like Mechanical Engineering, especially designing stuff on the computer (CAD design) and writing code (programming). I'm super excited about coming up with new and cool ideas to make our future more high-tech and awesome

Education

Bachelor of Technology in Mechanical Engineering,
Rajkiya Engineering College Azamgarh (AKTU) 2020 – 2024
CGPA: 7.0 / 10

Intermediate (UP Board), D.N. Inter College, Gulaothi, Bulandshahr 2018
Percentage: 70%

High School (UP Board), D.N. Inter College, Gulaothi, Bulandshahr 2016
Percentage: 75%

Skills and Interests

Design Software: AutoCAD 2D, SolidWorks, CATIA V5, STAAD Pro, MS Excel, PowerPoint
Interests: Mechanical Part Design, Quality Assurance, Manufacturing Systems
Soft Skills: Problem Solving, Communication, Leadership, Teamwork, Time Management

Experience

CAD Design Engineer, Tamar Software LLP Pvt., Noida July 2024 – Present

- Developed Horse and saddle design using SolidWorks, CATIA V5, and STAAD Pro.
- Optimized designs for perfect shape which can fit on the horse's back.
- and also make a different-2 kind of design according to the client demand

Summer Intern, Banaras Locomotive Workshop, Varanasi June 2023 – July 2023

- Successfully completed summer training in railways, acquiring practical experience and insights into critical railway operations.
- Applied theoretical knowledge to real-world railway scenarios to enhance technical skills.
- Collaborated with experienced professionals to understand and contribute to the functioning of key systems, including LAS, LFS, HWS and EES.

CATIA Training, Internshala (Remote) Aug 2022 – Oct 2022

- The training consisted of Introduction to CATIA Software and Workbenches.
- Led to learn about Sketcher, Part Design, Surface Design, Assembly and Drafting.
- Also considered final training Modules Projects.

Trainings

Summer Internship – Banaras Locomotive Workshop, Varanasi
CATIA Training – Internshala (Remote)

June – July 2023
Aug – Oct 2022

Academic Projects

Fabrication and Damping Analysis of Hybrid Composite Material

Aug 2023 – June 2024

- By leveraging hybrid fiber-reinforced composites (HFRC) and sandwich beam structures, this project explores the potential for enhancing vibration damping properties in structural applications.
- Through meticulous fabrication processes and comprehensive testing, the project evaluates the mechanical performance and damping behavior of HFRCs with varying compositions of natural hemp and synthetic glass fibers.

Personal Projects

Pneumatic Motor -

Tools- Solidworks 2022

- Designed a Pneumatic Motor in SolidWorks, encompassing part designs of base, mounting, motor block, cylinder, and connecting rod. Assembled the components and conducted a motion study for realistic motor operation.

Shock Absorber -

Tools- Solidworks 2022

- Design journey of a shock absorber in SolidWorks, Model components, assemble in CAD, and simulate realistic motion using SolidWorks to study the absorber's dynamic behavior.

Four Stroke Diesel Engine -

Tools- CATIA V5

- Modeled a 4-cylinder diesel engine using Catia, including assembly and part design to simulate engine operation and performance.

Extracurricular Activities

- Coordinator of Aavishkar Events (Technical Fest), REC Azamgarh.
- Member of ICC (Incubation of Council Cell), REC Azamgarh.