Rohan Verma

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Career Objective

Motivated and detail-oriented Mechanical Engineering postgraduate (M.Tech) with strong theoretical and practical knowledge in CAD software, thermodynamics, electrical systems, and mechanical design. Seeking an entry-level Mechanical Engineer role to apply design, engineering analysis, and problem-solving skills in real-world projects.

Education

M.Tech in Mechanical Engineering IIT Bombay 2022 – 2024 CGPA: 8.5/10

B.E. in Mechanical Engineering Pune Institute of Technology 2018 – 2022 CGPA: 8.2/10

Technical Skills

Category	Skills
CAD Software	AutoCAD, SolidWorks, CATIA V5, Fusion 360
Mechanical Concepts	Thermodynamics, Fluid Mechanics, Heat Transfer
Electrical & Electronics	Circuit Analysis, Sensors & Actuators, Mechatronics
Communication	Engineering Technical reporting, engineering documentation
Simulation Tools	ANSYS, MATLAB
Programming (Basics)	Python, C (for automation & simulation)

Academic Projects

🔧 Design and Optimization of Heat Exchanger
- Designed shell and tube heat exchanger using SolidWorks
- Performed thermal stress analysis using ANSYS
- Improved heat transfer efficiency by 12% using fin optimization

⚙️ Mini CNC Machine Prototype (Mechatronics Project)
- Built a 3-axis CNC machine using stepper motors and Arduino
- Integrated limit sensors and control circuits
- Applied knowledge of mechanical + electrical systems

🛰️ Gearbox Modeling and Analysis
- Modeled 3-stage reduction gearbox in CATIA
- Performed stress & load simulations
- Prepared detailed engineering drawings and BOM

Internship Experience

Mechanical Design Intern – L&T Engineering, Pune May 2023 – July 2023
- Assisted in CAD design of machine components
- Created engineering drawings and GD&T specifications
- Conducted tolerance analysis and component assembly validation

Certifications

- AutoCAD Professional Certification – Autodesk
- SolidWorks Mechanical Design Associate
- NPTEL Certification – Fundamentals of Thermodynamics
- MATLAB for Engineers – MathWorks

Soft Skills

Problem Solving Engineering Communication Team Collaboration Attention to Detail Project Documentation

Languages

English (Fluent) Hindi (Native) Marathi (Intermediate)

Declaration

I hereby declare that the information provided is true to the best of my knowledge.

Rohan Verma
Pune, India