

SUPRATIM PRASAD BORAH

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SUMMARY

A driven B.Tech Mechanical Engineering graduate with a strong passion for internal combustion engines, high-performance simulation systems, and mechanical design. Keen on harnessing the potential of simulation tools and CAD software to address actual engineering issues. Always looking forward to learning and implementing novel concepts in the field with a strong preference for team project work, innovation, and improvement.

WORK EXPERIENCE

Summer Intern, OIL INDIA LIMITED, Duliajan

June 2024 - July 2024

Gained hands-on experience in the Field Engineering Department, focusing on the Central Workshop, ICE (Internal Combustion Engine) Shop, and Water Supply & Water Injection systems.

Skills Developed:

- Technical proficiency in machinery and engine maintenance.
- Understanding of industrial water management systems.
- Problem-solving and teamwork within a multidisciplinary environment.

Winter Intern, ASTC Mechanical Workshop, Jorhat

Jan 2024 - Feb 2024

- Practical exposure in disassembly and reassembly of diesel bus engines; grasped principal components such as pistons and camshafts.
- Explored fuel injection, turbocharging, cooling, and ignition systems; conducted simple diagnostics and maintenance.
- Read service manuals and wiring diagrams; enhanced trouble-shooting and engine performance analysis abilities.

Summer Intern, Railway Mechanical Workshop, Dibrugarh

May 2024 - June 2024

- Understood the operation of Air Brake System (ABS) and witnessed maintenance practices in railway coaches.
 - Gained exposure to the process of railway bogie production, wheel turning, and axle inspection.
 - Learned corrosion repair techniques, surface preparation, and painting in the finishing department.
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EDUCATION

Bachelor of Technology in Mechanical Engineering

Oct 2021 - June 2025

Jorhat Engineering College, Jorhat

- Acquired a thorough understanding of mechanics, thermodynamics, fluid mechanics, and materials science, which helped me to solve and analyze practical mechanical problems with ease.
 - Acquired hands-on skills in using standard tools such as CAD (AutoCAD, SolidWorks), FEA (ANSYS), and CNC machines, with experience in designing and optimizing the mechanical systems.
 - Thesis on "Thermal Analysis Of Cooling Fins Of An Engine".
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ADDITIONAL INFORMATION

- **Technical Skills:** SOLIDWORKS, ANSYS, HTML, Python, MATLAB, Microsoft Power BI, MS Powerpoint, MS Excel, AI Tools
- **Other Skills:** Project Management, Product Development, Communication Skills, B2B Sales, Teamwork and Collaboration, Problem-Solving Ability
- **Languages:** English, Hindi, Assamese
- **Certifications:** Aeromodelling workshop, AI & ML Workshop
- **Activities:** Developed a Solar Lawn Mower using DPDT switch as a part of project internship at Indian Institute Of Guwahati, Guwahati