

Arpit Mathur

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EDUCATION

Bachelor of Technology in Mechanical Engineering

Birla Institute of Technology, Mesra | Ranchi, Jharkhand, India | **CGPA: 8.9** | Jun 2021 – Jun 2025

Relevant Coursework:

- Finite Element Methods
- Mechanical Vibrations
- Industrial Tribology
- Internal Combustion Engines (**ICEs**) and Gas Turbines
- Metallurgical and Materials Engineering

WORK EXPERIENCE

Team Srijan | Part-time | Nov 2022 – Present

Vehicle Dynamics Engineer

- Contributed to achieving a significant milestone by helping the team secure the 29th rank in the electric category during the Rule Quiz at Formula Bharat 2024 (FS India).
- Applied expertise in SolidWorks and Ansys Workbench to analyse CADs of vehicle components of the team's electric formula student prototype, Garud.
- Developed an in-depth understanding of various concepts of race car vehicle dynamics, including load transfer, racing tires and steering system, by referring to world renowned books and research papers in the field.

Technical Intern

- Gained hands-on experience and practical knowledge of various vehicle components, including the braking system, chassis, steering system, and drivetrain, while working on Team Srijan's electric formula student prototype (Garud).
- Acquired essential workshop skills such as cutting and grinding for manufacturing vehicle components.

SKILLS

Technical: Vehicle Dynamics, CAD, CAE, SolidWorks, Ansys Workbench, MATLAB, Simulink, Tire Modelling, Finite Element Analysis, Modal Analysis, Static Structural Analysis, Buckling Analysis, Thermal Analysis, Explicit Analysis, Dynamic Analysis, Topology Optimization

Soft: Creativity, Problem-Solving, Critical Thinking Adaptability, Teamwork

Languages: English (Fluent), Hindi (Native), French (Basic)

PROJECTS

- Garud 2.0, Formula Student Electric Vehicle Prototype
- Investigative Study on Effect of Different Orientations of Model in Smartphone Drop Test

EXTRACURRICULAR EXPERIENCE

Rotaract Club of BIT Mesra

Member | Ranchi, Jharkhand | Feb 2022 – Feb 2024

Helped the club organize numerous successful and entertaining events like BIT Roadies and Gokulashtami Celebration, which increased the footfall of the club's events by over 10%.