



## Rajveer Sahu

Roll No.: 2211601205

Bachelor of Technology

Mechanical Engineering

Maulana Azad National Institute Of Technology, Bhopal

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🌐 LinkedIn Profile

### EDUCATION

- **Maulana Azad National Institute Of Technology, Bhopal** 2026  
B.Tech, Mechanical Engineering CGPA: 8.2
- **Gov. Venkat Excellence H.S. School No.1, Satna** 2021  
Board of Intermediate Education, Madhya Pradesh CGPA: 8.8
- **Gov. Venkat Excellence H.S. School No.1, Satna** 2019  
Board of Secondary Education, Madhya Pradesh CGPA: 8.9

### EXPERIENCE

- **Kjs Cement Ltd** May 2024-Jul 2024  
Vocational Training Intern Maihar
  - Worked in the Captive Power Plants division.
  - Deep understanding of the WHRS (Waste Heat Recovery System) in cement plants, which captures and utilizes Heat from exhaust gases during the cement manufacturing process
  - Analyzed conveyor belt systems for coal supply and identified system inefficiencies.

### PERSONAL PROJECTS

- **H-BAJA ATV** Aug 2024-Jan 2025  
My input- Optimize Suspension System in Baja Vehicle
  - Tools & technologies used: Solidworks, Ansys, Lotus Shark, IPG CarMaker, UTM Machine, CNC milling machine
  - Developed New suspension geometry for Baja Vehicles Created new double wishbone, ensuring available space
  - Implemented pneumatic suspension for achieving quick reaction
- **E-BAJA ATV** Jul 2023-Mar 2024  
My input- Design Steering and Suspension geometry
  - Tools & technologies used: Creo, Solidworks, Ansys
  - Designed new Knuckles to achieve straight line stability for our vehicle and collaborated with other college teams to improve steering effort for our Baja vehicle.
- **Synchromesh Gearbox** Nov 2023 - Feb 2024  
My input- Conducted CAD Design and 3D Printing
  - Tools & technologies used: Creo, FLASHPRINT, Ansys
  - Created synchronizer ring with Polylactic Acid (PLA), ensuring smoothness on Gear shifting and 3D Printing of Gearbox for rpm up to 2300

### TECHNICAL SKILLS AND INTERESTS

**Programming Languages:** C, Java

**Software Skills:** SolidWorks, Creo (CAD); Ansys (FEA); Lotus Shark, IPG CarMaker (Simulation)

**Coursework:** Engineering Mechanics, Material Science, SOM, Machine Design, TOM, Engineering Thermodynamics, IC Engine and Gas Turbines

**Areas of Interest:** Vehicle Dynamics, Renewable Energy, Reverse Engineering

### POSITIONS OF RESPONSIBILITY

- **Vice Captain**, Team Equinox participated in H-BAJA competition organised by SAEINDIA 2024-2025
- **Suspension Coordinator**, SAE (Society Of Automotive Engineers) MANIT 2023-2024

### ACHIEVEMENTS

- **Participated in H-BAJA 2025 as Vice Captain (Pithampur, Indore)** 2025
- **Participated in E-BAJA 2024 (Hyderabad)** 2024