

PRADIP GATIR

Mechanical Engineering Student
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PERSONAL SUMMARY

Mechanical Engineering student and Technical Lead for Team Redline Racing Electric, the All India Rank 1 winners of Formula Imperial 2025. I specialize in Powertrain and chassis design, using ANSYS and CAD for simulation and structural optimization. I enjoy tackling complex automotive problems and building high performance electric vehicles based on data and testing.

KEY ACHIEVEMENTS

- Formula Bharat 2025:** Ranked **22nd Overall** nationally and secured **Top 10** in Cost & Manufacturing.
- Formula Imperial 2025:** Secured **All India Rank 1** (Electric Vehicle Category).
- Technical Awards:** Won **Best Acceleration** and **Best Endurance** awards.
- Pioneer Performance:** First EV team to successfully clear Technical Inspection at the event.
- Competitions:** Ranked in the Top 3 for Business Plan, Cost & Manufacturing, and Design Presentation.

EDUCATION

JSPM's Rajarshi Shahu College of Engineering	2023 – 2027
Pune Bachelor of Technology in Mechanical Engineering CGPA: 8.98 Pursuing Multidisciplinary Minor (MDM) in Electrical Engineering	
MVP's Janata Vidyalaya and Junior College	Igatpuri
HSC (12th Grade)	2023

CO-CURRICULAR ACTIVITIES

Team Redline Racing Electric	
Technical Lead	Pune
<ul style="list-style-type: none">Leading a 20+ member engineering team for Formula Student Electric vehicle development.Managing design reviews, rulebook compliance, and Engineering Design.Coordinating subsystem integration: Powertrain, Ergonomics, Vehicle Dynamics and HV/LV systems.Overseeing project timelines, manufacturing planning, and quality control for EV prototypes.	2025 – Present
Chassis Team Member	Pune
<ul style="list-style-type: none">Designed a tubular space frame chassis in CATIA V5, ensuring FSAE rulebook compliance.Fabricated components through hands on Tube Cutting, Notching, and Welding preparation.	2023-2025

SKILLS

- CAD/CAE:** CATIA V5, SolidWorks, ANSYS Workbench (CFD, Static Structural), MATLAB, Optimumlap.
- Automotive:** Chassis Design, Vehicle Dynamics, Powertrain.
- Fabrication:** Welding Preparation, Tube Cutting, Notching, DFM / DFA, GD&T.
- Software & Tools:** MS Excel, MS PowerPoint.
- Soft Skills:** Team Leadership, Project Management, Communication, Rapid Adaptability.

PROJECTS

Obstacle Detecting Vehicle (Prototype Development)	2024
<ul style="list-style-type: none">Fabricated the chassis and physical prototype for an autonomous Arduino-based vehicle.Designed the powertrain and integrated primary motor and battery wiring.	
FSAE Car Chassis Design (Design & Analysis)	2023-2024
<ul style="list-style-type: none">Modeled a complete race car chassis, improving structural rigidity by 25%.Achieved a 15% weight reduction by executing iterative torsional stiffness simulations in ANSYS.	

INTERESTS & ARTS

- Music:** Passed 5 levels of exams in Pakhawaj (Indian Classical Percussion Instrument).
- Arts:** Secured 'A' Grade in Intermediate Drawing Grade Examination.