

Vikram Vilasrao Rathod

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Gurudwara Colony, Akurdi Railway station road, Pune, Maharashtra, India - 411038

Summary

Mechanical Engineering graduate with hands-on experience in motorsports engineering, manufacturing, and team leadership, including design and fabrication of off-road vehicles. Skilled in CAD design, fabrication, and core mechanical systems. Proven ability to manage projects under real-world constraints and collaborate in cross-functional teams for automotive innovation.

Education

- BE-Mechanical Engineering in 2025
- Savitribai Phule Pune University, Pune, Maharashtra
- Diploma-Mechanical Engineering with 75.24% MSBTE • Mumbai, Maharashtra
- HSC with 68.70
- Ch. Sambhajnagar Board, Maharashtra

Project:1

Genesismotorsport16 • DYPIEMR , Akurdi , Pune, Maharashtra

Feb 2023 – March 2024

March 2024-Feb 2025

- Department of Steering and Suspension | Manufacturing Lead
- Breaks Department
- Mechanical Engineering student worked in Genesis Motorsport project in which we design and manufacture a BAJA ATV (All-Terrain Vehicle) and take part into an event which is held by SAE BAJA India.
- The opportunity I had with Genesismotorsport16 was a great chance for learning and professional development.

Key Skills

- Worked on the design and optimization of ATV steering and suspension systems for SAE BAJA India events.
- Applied CATIA and SolidWorks for design for manufacturing (DFM) practices.
- Collaborated with manufacturing and design sub-teams to ensure structural integrity and system compatibility.
- Led a team in the manufacturing of an off-road BAJA vehicle chassis and sub-assemblies.
- Coordinated with vendors, managed manufacturing timelines, and ensured production quality.
- Developed skills in vendor management, time management, and teamwork.

Project -2: Design and fabrication of solar powered Drone

- BE Final Year Project • DYPIEMR, Pune, Maharashtra
- Solar-Powered Drone: Designed and fabricated.
- Extended Flight Time: Utilized solar technology for prolonged operation.
- Forest Surveillance: Intended for monitoring forest regions.
- Crime Prevention: Aided in preventing illegal activities.
- Hunting and Smuggling Deterrence: Specifically targeted to combat these activities

Training : Robotics and Automation

- Basic robotics principles and concepts.
- Automation system fundamentals and components.
- Introduction to Arduino UNO programming.
- Gained practical understanding of automation workflows.

Skills

- CATIA | SolidWorks | CAD/CAM
- Manufacturing | Design for Manufacturing
- MS Office | Excel | PowerPoint
- Time Management | Communication | Teamwork
- Vendor Co-ordination

Certificates

- Industrial Robotics and Automation, PMS Robotics Research Centre, Pune
 - 3D Printing Workshop, SPPU
 - Digital Productivity Course (MS Word, Excel, PowerPoint)
 - Certified Of AutoCAD
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