

Saurabh Powar

B.Tech.- Mechanical Engineering

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Experience

Team Niyudrath Racing | Autosports Club (SAEINDIA BAJA)

2020-2023

- Design, Fabrication, and Testing of All Terrain Vehicle
- Development of a virtual vehicle model for testing and improving the performance of ATV using IPG Carmaker

Binani Technologies India (Design Intern)

June 22 – Sept. 22

- Chassis Design of 4-wheeler EV considering battery packaging requirements, strength, and vehicle hard points
- Design and analysis of Trellis frame chassis and Rear suspension for E-Bike considering packaging and Driver posture requirements

Academics

- Mechanical Engineering (B.Tech.) - MIT Academy of Engineering, Pune | CGPA: 8.36
- HSC – K.C. College Mumbai | Percentage: 76.77%

Academic Projects

Optimization of CVT for All Terrain Vehicle

- Continuously Variable Transmission(CVT) designed by reverse engineering from OEM Gaged GX-9 transmission for better weight optimization along with increased tunability options for better adaption to terrain condition

Effect of surface roughness on boundary layer using CFD

- CFD study included variations of surface roughness to observe change in boundary layer thickness, laminar to turbulent transition and variation in viscous force

Position of Responsibility

Team Captain | Autosports Club

2022-2023

- Leading the team through the SAE BAJA 2023 competition and coordinating the vehicle's development from the design to the testing phase

Suspension and Steering lead | Autosports Club

2021-2023

- Development and testing of off-road ATV suspension and steering system

Achievements

- **AIR 9** in SAEINDIA BAJA 2023 along with **AIR 1** in Go-Green and **AIR 3** in Validation Event
- **AIR 2** in Go-Green in SAEINDIA BAJA 2021 and BAJA 2022
- **AIR 5** in drone competition at IITB Techfest 2020

Skills

ANSYS, Fluent/CFX, OpenFoam, COMSOL, MATLAB, Python, CATIA, Solidworks, Fusion 360, Mathematical Modelling, Linux Bash