Dev Lokhande

Panvel devlokhande988@gmail.com 7820958372 DevLokhande Dev Lokhande

Education

Pillai College of Engineering *Nov 2022 – May 2026*
Btech in Automobile Engineering

- CGPA: 6.7
  - **Product Design & Development**
  - **Computer Aided Engineering (CAE)**
  - **3D Modeling & Animation (Blender, SolidWorks, CATIA)**
  - **Computer-Aided Design (CAD) & Engineering**
  - **Surface & Solid Modeling**
  - **Meshing (HyperMesh) & Analysis (Ansys)**
  - **Industrial & Automotive Design**

Experience

Vice-Captain *Panvel, IN*
Hyperion Racing Team *Dec 2024 – Present*

- Led and coordinated the **team's design, manufacturing, and testing** processes.
- Managed **team operations, deadlines, and communication** with sponsors and faculty
- Assisted in **vehicle integration, system optimization, and technical decision-making**.

Electronics Head *Panvel, IN*
Hyperion Racing Team *Oct 2024 – Present*

- Led the **electronics sub-team**, overseeing the design and implementation of all **electrical systems**.
- Designed and developed the **wiring harness, BSPD, and power distribution system**.
- Integrated **sensors, relays, motor controllers, and safety circuits** to optimize performance.

Intern (BIW Welding Fixtures) *Panvel, IN*
Pillai College of Engineering *june 2024 – july 2024*

- I worked with my team on building and learning about the BIW welding fixtures
- We worked on the BIW for panels in automotive industry
- I worked on Designing of clamps, pins and the pneumatic cylinder

Intern (HyperMesh) *Panvel, IN*
Pillai College of Engineering *june 2025 – july 2025*

- I worked with my team on learning and understanding of the HyperMesh software and the about Meshing.
- In this we perform 2D meshing, 3D hexa meshing, 3D tetra meshing.
- I have learned about the terminologies of meshing, learned geometry cleanup, mesh flow, symmetric verification, mid surfacing, Mesh size, quality check.

Projects

BIW welding Fixtures

- Developed **BIW welding fixtures** for automotive assembly using **SolidWorks**, ensuring precise **clamping, locating, and supporting** mechanisms. Created **3D models and detailed 2D manufacturing drawings**, applying **GD&T** for accuracy. Improved **weld accessibility and tolerance stack-up**, enhancing manufacturability and assembly efficiency.
- Tools Used: SolidWorks, Ansys

Mahindra Sedan Concept

- Designed a conceptual sedan under the Mahindra brand, focusing on aerodynamics, aesthetics, and engineering feasibility.
- Developed a 3D CAD model with attention to proportions, ergonomics, and structural integrity.
- Integrated innovative features to enhance vehicle performance and efficiency.
- Tools Used: Blender

Tabletop Wind Tunnel *Dec-2024*

- Designed a functional wind tunnel for aerodynamic testing, focusing on airflow control and testing feasibility.
- Developed a detailed 3D CAD model with provisions for smoke flow visualization and sensor integration.
- Conducted CFD simulations to analyze airflow characteristics and aerodynamic performance.
- Tools Used: SolidWorks

Technologies

Softwares: Solidworks, Blender, HyperWorks, Ansys, Linkage, Matlab, Cura, Autocad, Proteus, Altium, Kicad, Eaglecad

Technologies:

CAE: HyperWorks, Ansys

CAD & Design: SolidWorks, CATIA, AutoCAD, Blender

Rendering & Visualization: KeyShot, Blender, Adobe Photoshop

Manufacturing & Engineering: GD&T, Tolerance Stack-up Analysis, Welding Fixture Design

Programming: Python, MATLAB