



HARSHIL SHAH

A driven engineering student with hands-on experience in CAD design, 3D modeling, and finite element analysis, aiming to pursue a career in product design. Eager to apply my technical skills and creativity in designing functional, aesthetically appealing, and manufacturable products.

Mumbai, Maharashtra
harshild112@gmail.com
9321440941

Github-
<https://harshilshah357.github.io/Profile/>

EDUCATION

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING	2022-2026
Bachelor of Technology in Mechanical Engineering with Honors in Electric Vehicles	Current CGPA-8.44
PACE JUNIOR SCIENCE COLLEGE	2020-2022
HSC	Percentage-81.5
B.A.K SWADHYAY BHAVAN	2010-2020
SSC	Percentage-94.2

EXPERIENCE

Online Internship – ACMEGRADE June – August 2024

- Learned foundational 2D drafting techniques using AutoCAD, including line work, dimensions, layers, and annotations.
- Created a detailed 2D sketch of a Lamborghini Countach as part of the final internship project.
- Developed a strong understanding of technical drawing principles and automotive design components.
- Earned both Trainee Completion and Internship Completion certificates upon fulfilling program requirements

CERTIFICATIONS

SolidWorks, CATIA & ANSYS Workbench Training – CADD Centre

- Completed a comprehensive 120-hour professional training in SolidWorks and CATIA, including software training, practice, and project-based application.
- Developed skills in sketching, part modeling, assemblies, sheet metal, and surface design, while converting complex 2D technical drawings into accurate 3D models.
- Completed project work modeling mechanical systems such as a four-cylinder inline engine, jet propulsion engine, rear axle assembly, and aircraft landing gear system.
- Gained advanced proficiency in ANSYS Workbench, covering static structural, thermal, modal, harmonic, and dynamic structural and thermal analysis.
- Learned meshing strategies, applying boundary conditions, load applications, and interpreting FEA results for real-world mechanical components.

PROJECTS

NC Drilling Machine (Academic)

- Designed and modeled a Numerical Control (NC) drilling machine using SolidWorks, focusing on the frame, drilling mechanism, and motion control system.
- Created a motion study simulation to visualize and validate the machine's operational movements.
- Collaborated with the electrical team to integrate control systems, emphasizing automation and manufacturing precision.

Soft Robotic Glove (Academic)

- Modeled soft silicone based actuators for a wearable glove using SolidWorks focusing on achieving high flexibility and controlled bending.
- Performed FEA Analysis using ANSYS Workbench to study bending behavior, stress and deformation under varying pressure.

SKILLS

CAD Software: Expertise in 3D-modelling, surface design, sheet metal, motion study and assembly design.

Simulation and analysis: Skilled in various structural analysis, meshing, boundary conditions, and result interpretation.

Electric Vehicles: Knowledge of batteries, motors, vehicle powertrain systems, and energy efficiency optimization.

CNC Machining: Hands-on experience with CNC machine operation, part fabrication, and precision machining.

Soft Skills: Strong leadership skills, Effective problem-solving and analytical skills.