

SIRI VENKATA NAGA GOPI DOKKU

Vijayawada, Andhra Pradesh | Ph: +91 9392081536 | sirivenkatdokku@gmail.com | [linkedin.com/in/siri-venkatd](https://www.linkedin.com/in/siri-venkatd)

PROFESSIONAL SUMMARY

- Mechanical Engineering graduate with expertise in CAD and CAE tools including CATIA, AutoCAD, and ANSYS.
- Experienced in leading engineering projects and performing complex analyses.
- Aiming to maximize the skills in mechanical design and structural analysis to contribute to innovative projects and solutions in a forward-thinking engineering firm.

EDUCATION

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

Mylavaram, Andhra Pradesh
Dec 2020 – June 2024

Bachelor of Technology in Mechanical Engineering

Scholarship: AP Government (2020 – 2024); Cumulative GPA: 7.91/10.0;

Relevant Coursework: Solid Mechanics, Mechanical Design, Computer-Aided Design (CAD), Finite Element Analysis (FEA), and Manufacturing Processes.

SKILLS

- **TECHNICAL SKILLS:**
 - **CAD Tools:** CATIA V5, AutoCAD.
 - **Finite Element Analysis:** ANSYS.
- **INDUSTRY SKILLS:**
 - **Plastic Product Design**
 - **GD & T**
 - **Design for Manufacturability (DFM)**
- **Languages:** English, Telugu.
- **Reverse Engineering**
- **Injection Moulding**
- **Advanced Surface Modeling: A to B**

PROJECTS

CAR DOOR SUBSTRATE

Jan 2025

- Developed **B-side features** (ribs, bosses, snaps and locators) using **CATIA V5**, ensuring adherence to **Plastic product design guidelines** and **GD&T standards**.
- Performed **draft analysis** and optimized **wall thickness** (2.5 mm) to eliminate sink marks and ensure proper ejection during molding.
- Conducted Clash Analysis for the assembly of: Map pocket, arm-rest, door trim, and bezel cover, and modified parts accordingly.
- Conducted **mold flow simulations** to validate flow lines and prevent defects like warpage and weld lines, achieving **first-time approval** in design reviews. (just shown not done actually)
- Coordinated with tooling engineers to implement **shut-offs** and **parting line adjustments**, enhancing manufacturability and reducing tool rework.

EXPLICIT CRASH ANALYSIS OF A CAR BODY USING ANSYS

Dec 2023 – April 2024

- Directed a team of three in conducting ANSYS crash test analysis on lightweight materials (**Carbon fibers, Ti-6Al-4V, Al 7075-T6**) for car bodies, designing a conceptual car body in CATIA, and identifying optimal materials for improved safety and structural integrity.
- Awarded the Best Project of the Year 2024 by the Lakireddy Bali Reddy College of Engineering.

EXPERIENCE

PIONEER DESIGN | DDU – GKY | SEEDAP

Skill College, ANU, Guntur, Andhra Pradesh

Automotive Plastic Product Design Engineer Trainee

Dec 2024 – Present

- Specializing in Body-in-White (BIW), Plastic Product Design, remastering, A to B surface design, and applying Geometric Dimensioning and Tolerancing (GD&T) principles using CAD tool CATIA V5.
- Responsible for design documentation and contributing to automotive product development.

CENTRAL INSTITUTE OF TOOL DESIGN

Vijayawada, Andhra Pradesh

Student Intern

Dec 2023 – Mar 2024

- Gained practical experience with AutoCAD, and ANSYS in a professional setting.
- Accomplished Student intern with over a 4 – month experience in Design & Analysis software tools.

INTERNSHIPS AND CERTIFICATIONS

- **INTERNSHIPS:**
 - Robotics (Skill Dzure). Jul 2022 – Aug 2022
 - CATIA (Aylin Technologies). Jul – Sep 2023
 - CITD. Dec 2023 – Mar 2024
- **CERTIFICATIONS:**
 - DraftSight Associate Aug 2024
 - Electric & Solar Vehicle Design and Development, iPrime Skills Aug – Sep 2022