

Sujal Santosh Vardhamane

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EDUCATION

B.E. in Mechanical Engineering

KLS Gogte Institute of Technology, Belgaum, Karnataka | CGPA: 7.15

TECHNICAL SKILLS/ SKILLS

CAD Software: Fusion 360, CATIA, SolidWorks

CAE/Simulation: FEA basics (static), Meshing Skills, Tools - ANSYS / Abaqus

Manufacturing: Mfg. Process knowledge, CNC basics

Programming: Python

Currently Learning: Web Development, Ai / ML

Industrial Robotics basics, PLC programming, Sensors/ Actuators, Project Planning, Teamwork
3D modelling software (Blender)

PROJECTS

3D Printed PCB Holder Design

- Designed an ergonomic and adaptable PCB holder using Fusion 360
- Ensured stability and compatibility for multiple PCB sizes
- Focused on ease of soldering, assembly, and testing

Quadcopter Drone Frame Design & Structural Analysis

- Designed a lightweight quadcopter frame in 3D CAD with focus on strength, weight and proper component placement.
- Carried out static structural analysis to study stress, deformation and factor of safety under different loading conditions.
- Modified the frame design and selected a suitable material to reduce weight while maintaining sufficient structural strength.

Wind Turbine Blade Design

- Worked on aerodynamic blade design

6-DOF Robotic Arm Design & Motion Analysis

- Designed a 6-DOF robotic arm using 3D CAD, including the base, joints, links and end-effector.
- Created the complete assembly and simulated the movement of each joint to check the arm's range of motion.
- Performed basic structural analysis on the major components to identify areas of high stress and improve the design.

Machine Learning Classification Module

Ongoing

- Developing a machine learning-based classification approach to reduce time and cost
- Focused on enhancing automation and scalability without compromising accuracy
- Going through different Regression Models (linear and non linear)

INTERNSHIP

Practical Training Intern — Gokul Metatech Pvt. Ltd.

2025 1 Month

- Gained hands-on exposure to foundry processes and manufacturing parameters in an industrial setting
- Observed and understood key aspects of factory operations and production workflows

CERTIFICATIONS

Certificate in Additive Manufacturing — KLS Gogte Institute of Technology 2025

Certificate in Human Computer Interactions — NPTEL 2026

DECLARATION

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

Sujal Santosh Vardhamane

Belgaum, Karnataka