NIHAL ADARSH RENUK

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Portfolio: GitHub

CAREER OBJECTIVES

A passionate and motivated Mechanical Engineering student with a solid background in CAD software and core engineering principles. Eager to apply my technical expertise and academic knowledge to meaningful projects, while further developing my skills and advancing as a professional.

EDUCATION

- **Don Bosco Institute of Technology** **-2025 (CGPA:7.84)**
  Bachelor of Engineering in Mechanical Engineering
  Visvesvaraya Technological University (VTU).
- **Sharadha PU College, Dharwad** **-2021 (61%)**
  Pre-University Education
  Karnataka Pre-University Board.
- **Vijayashree Public School** **-2019 (64.6%)**
  Secondary School Leaving Certificate
  Indian Certificate of Secondary Education (ICSE).

SKILLS

- MATLAB
- Solid Edge
- MS Excel
- MS Word

CERTIFICATIONS AND WORKSHOP

AutoCAD **90%**
- Experienced in 2D and 3D drafting, creating accurate technical drawings.

SOLIDWORKS **86%**
- Skilled in 3D modeling, part and assembly design, and basic simulation.

NX CAD **80%**
- Proficient in mechanical design and assembly modeling using Siemens NX.

CATIA V5 **92%**
- Skilled in 3D modeling, assembly design, and complex surface modeling.

Mechanical Design Workshop
- Learned the fundamentals of mechanical design and industry standards

EXPERIENCE

Intern - ABB **Feb 2025 - Present**
Project: Tolerance stack-up analysis of 3-phase induction motor

PROJECT

Development, Automation and Implementation of an Agro-Seeding Drone
- Tools: NX CAD, SOLIDWORKS
- Technologies Used: ESP32, APM 2.8, BLDC motors, GPS, Arduino for control & navigation.
- Objective: Develop and implement a compact drone for precise seed dropping in small farms and hard-to-reach areas like hills and forests.
- Results: Successfully tested for accuracy, stability, and uniform seed distribution.

Multi-axis robotic arm assembly
- Tool: CATIA V5
- Designed a robotic arm with joints, actuators, and end effector.

V6 engine assembly
- Tool: NX CAD
- Designed a detailed V6 engine, including pistons, crankshaft, camshaft, and valves.