RAJESH LADWA

Gudi oni, Channapeth, Hubli, Karnataka
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EDUCATION

SDM College of Engineering & Technology — **Currently**
B.E. in Mechanical Engineering (Obtained 7.81 CGPA till 5th Sem) — Dharwad, Karnataka

Government Polytechnic Hubli — **2021-2023**
Diploma in Mechanical Engineering (Obtained 8.82 CGPA) — Hubli, Karnataka

Shri Vivekanand English Medium School — **2010-2020**
SSLC (Obtained 82.24 %) — Hubli, Karnataka

SKILLS SUMMARY

- **Languages:** English (Proficient), Hindi (Proficient), Kannada (Proficient).
- **Tools:** Power BI (Basic), Excel (Basic), PowerPoint.
- **Software:** ANSYS Workbench (Basics), Solid Edge (Basic)**,** Catia V5 (Intermediate), Solid Works (intermediate)
- **Additional Skills:** CNC Programming**,** Rapid prototyping, Robotics and Automation, Advanced manufacturing.

WORK EXPERIENCE

DANA ANAND PVT LTD. | Link — **Feb 2023 - May 2023**
Jodalli, Karnataka

- Worked as an Intern.
- Successfully completed On-the-Job Training (OJT-1 & OJT-2) in a high-volume production environment.
- Operated and monitored CNC machines for precision tasks in the automotive component manufacturing process.
- Contributed to the production of over 10,000 Nissan Coupling Flange parts, maintaining strict quality standards.
- Collaborated with cross-functional teams to ensure smooth assembly line operations and minimize downtime.
- Gained hands-on experience with Lean Manufacturing and Kaizen techniques.
- Interacted with Fanuc industrial robots.

GOVERNMENT TOOL ROOM AND TRAINING CENTRE HUBLI (GTTC). | Link — **Jan 2023 - Jan 2023**
Hubli, Karnataka

- Trained in CNC programming using G-codes and M-codes for milling and turning operations.
- Operated and simulated processes on Fanuc CNC Milling and Turning machines.
- Learned Rapid Prototyping techniques using FDM, SLA, and SLS 3D Printers.
- Gained exposure to Advanced Manufacturing Processes, including CNC machining and 3D printing.

PROJECTS

Fabrication of pneumatic sheet metal cutter | Link — **Currently**

- Designed and fabricated a pneumatic sheet metal cutter for efficient cutting of aluminium sheets using compressed air power.
- Performed calculations for cutting force, shear stress, and optimal blade geometry based on material properties (e.g., 0.5 mm aluminium, 70 MPa strength).

Digital Angle Measurement Device | Link — **Sep 2024 - Feb 2025**

- Developed a portable digital angle measurement device using Arduino Nano and MPU6050 gyroscope for real-time pitch angle calculation.
- Designed for quick on-site angle readings with a compact, battery-powered setup ideal for field usage.
- Useful in construction, carpentry, and fabrication tasks requiring precise angle measurement and alignment.

CERTIFICATES

CATIA V5 - Computer Aided Design (CAD)| Certificate — **October 2024**

- Gained hands-on experience in 3D part modeling, assembly design, and drafting using CATIA V5 interface.
- Proficient in designing mechanical components and assemblies, with emphasis on parametric modeling, geometric constraints, and engineering drawings.

IoT (Internet of Things) Wireless & Cloud Computing Emerging Technologies | Certificate — **December 2022**

- Acquired knowledge of IoT architecture, wireless communication protocols (Wi-Fi, Bluetooth), and real-time data transmission.
- Gained practical exposure to cloud platforms and remote device monitoring, focusing on smart systems integration and automation using IoT sensors and microcontrollers.

Exploring the Additive Manufacturing (3D Printing) Revolution | Certificate — **November 2022**

- Gained in-depth understanding of 3D printing technologies, materials, slicing software, STL file preparation, and operating FDM 3D printers for prototyping and production applications

EXTRA-CURRICULAR ACTIVITIES

Internet of things Competition | SDMCET | Certificate

- Secured second place for demonstrating an innovative IoT-based solution integrating real-time sensor data and wireless communication.

CAD Modelling Competition | SDMCET

- Gained hands-on experience in time-bound 3D design challenges using CAD software enhanced modeling speed, precision, and design thinking under competitive conditions.

HOBBIES

CAD Modelling | Listening Audio Books | Swimming | Volleyball | Puzzles Solving | Meditation.