Isha Todankar

Fresher
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About Me

Recent Electronics and Communication Engineering graduate with a strong interest in applying technical knowledge to real-world problems across domains. Highly motivated and quick to learn, with hands-on experience in automation, embedded systems, and data-acquisition projects. Dedicated to continuous improvement, working collaboratively, and delivering practical, high-quality solutions that create a positive impact.

Education

B.Tech in Electronics and Communication, UMIT, SNDTWU, Mumbai — Nov 2022 – Jun 2025
Avg CGPA: 7.95

Diploma in Electronics Engineering, Premlila Vithaldas Polytechnic, SNDTWU — Aug 2018 – Jun 2022
Percentage: 86.20%

S.S.C, M.V.M. Educational Campus, Mumbai — Mar 2018
Percentage: 78.00%

Experience

Intern, SAMEER, IIT Bombay (Offline) — Feb 2025 – Aug 2025
(Society for Applied Microwave Electronics and Research)
Department: Radio Frequency & Microwave Division
Project: Prototype Development of Automatic Radiation Pattern Measurement System
Objective: Automate radiation-pattern measurements to eliminate manual rotation and improve repeatability.
How it works: GUI accepts step-angle and filename, system rotates the antenna to each angle, waits for settling, issues measurement commands to the instrument, captures marker and full-trace arrays, appends angle + data to CSV and updates a live polar plot.
Outcome skills: Produced accurate, repeatable 360° patterns with real-time visualization; C++, Python, instrument control (SCPI via PyVISA), serial communication, CSV logging and Matplotlib plotting.

Student Trainee, TIFR, Colaba (Offline) — Feb 2022 – Jun 2022
(Tata Institute of Fundamental Research)
Department: Pelletron Linac Facility
Project: EFM8BB1 Microcontroller and BLDC Motor
Objective: Understand and implement a microcontroller-based control system for a BLDC motor to study its speed control characteristics and evaluate real-time control capability.
How it works: A control algorithm was programmed on the EFM8BB1 microcontroller to generate PWM signals and drive the BLDC motor driver; duty-cycle adjustments were applied based on input parameters, and the system monitored changes in motor speed/response to verify control performance.
Outcome Skills: Successfully demonstrated closed-loop motor control using firmware programming; gained practical experience in C programming, PWM generation, microcontroller-peripheral interfacing and real-time control concepts.

Intern - PCB Designing, SCAD Technologies, Malad — Jul 2020 – Jan 2021
Online mode

Projects

- Drowning Prevention System
- IoT based Pulse Oximeter using NodeMCU
- Gesture Controlled Robotic Car using Arduino Nano

- Wi-Fi Based Remote Controlled Car using NodeMCU
- Toy Guitar using BBC Microbit
- Motion Sensor Study Lamp

Additional Information

- **Languages:** English, Hindi, Marathi
- **Roles:** Senior student Co-ordinator @UMIT Training and Placement Cell.
- **Responsibilities:** Coordination with companies and students, email handling.
- **Skills:** Proficient in MS Word, PowerPoint, Excel, C, C++, Python (Basics)
- **Soft Skills:** Problem-solving, Communication, Team player.