Swaroop Mudholkar

Electronics & Telecommunication Engineering Student | Embedded Systems & IoT Enthusiast | Web Development

swaroopmudholkar@gmail.com +91 8830157488 Pune, Maharashtra, India

www.linkedin.com/in/swaroop-mudholkar-23a4b0292

https://swaroop-mudholkar-portfolio.vercel.app/

PROFILE

Electronics Engineering student and Embedded and IoT enthusiast passionate about building innovative hardware-software solutions. Skilled in microcontrollers, sensors, circuit design, and modern web development. Seeking opportunities to apply engineering, analytical and development skills in real-world projects and grow as a system-level problem solver.

EDUCATION

B.Tech in Electronics & Telecommunication 2023 – 2027
Pimpri Chinchwad College of Engineering Pune

12th Science, Maharahtra Board 2021 – 2023
S. B. Patil College of Science and Commerce Pune

10th, CBSE 2021
S. B. Patil Public School Pune

SKILLS

Programming
- C, Embedded C, C++, Python, HTML, CSS, JavaScript

Microcontrollers
STM32, ESP32, Arduino

Software Tools
Multisim, E-Plan, MATLAB

PROFESSIONAL EXPERIENCE

PLC Panel Design and Testing Intern (4 Weeks) 06/2025 – 07/2025
Cotmac Electronics Pvt. Ltd. Pune
- Worked on PLC panel design and testing, wiring verification, and component layout checks.
- Assisted in understanding PLC-based automation workflows and industrial control systems.
- Improved skills in E-plan Electric P8, reading electrical schematics, troubleshooting, and documentation.

Documentation Team Lead PCCOE, Pune
PCCOE EnTC Internship Cell
- Led documentation activities for the internship cell.
- Managed reports, communication, and coordination with team members.

Technical Competitions
- Participated in SIH 2024, IETE National Level Project Competition, and E-Yantra 2025.

PROJECTS

Proactive Detection of Aspergillus Growth Through Indoor Air Monitoring
Tech: STM32, UART, DHT22, MQ135, LCD
- Developed an indoor air monitoring system that measures temperature, humidity, and air quality.
- Displays real-time readings on LCD and alerts when conditions are ideal for fungal growth.
- Focuses on reliable sensor interfacing, real-time data acquisition, and environmental monitoring.

Smart Chair System for Real-Time Posture Monitoring & Wellness Reminder
Tech: ESP32, Force Resistor Sensors, Ultrasonic & Touch Sensors
- Designed a posture-tracking system that detects slouching, imbalance, and incorrect sitting posture.
- Provides real-time feedback and wellness reminders to promote healthy sitting habits.
- Can be extended for workplace ergonomics and long-term posture health.

Mini Project - Refrigerator Door Alarm
Tech: LDR, Transistor, Resistors, Capacitor, Buzzer
- Designed a delay-based alarm system that activates if the fridge door remains open too long.
- Strengthened basics in electronics, timing circuits, and component selection.

INTERESTS

Embedded Systems | IoT | Circuit Design | Web Development | Data Analytics (Learning) | Excel/Power BI (Learning)

STRENGTHS

- Quick learner & self-driven
- Strong analytical & problem-solving skills
- Good documentation & communication skills
- Passion for embedded systems & full project lifecycle

LANGUAGES

English ●●●●○ Hindi ●●●●●
Marathi ●●●●●