

Aryan Ranjeet Kadam

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Professional Summary

Electronics and Telecommunication Engineering student with strong knowledge of embedded systems, IoT, and real-time applications. Hands-on experience with STM32, ESP32, and sensor-based systems. Skilled in Embedded C, Python, and Verilog with practical exposure to circuit design and hardware interfacing. Seeking opportunities in embedded systems and automation.

Education

Marathwada Mitra Mandal College of Engineering, Pune

2023 – 2027

Bachelor of Engineering in Electronics and Telecommunication

CGPA: 9.59, 9.02, 8.67

Experience

Skillful Technologies Pvt. Ltd., Pune

Jan 2026 – Feb 2026

- Worked on industrial product development and component testing procedures.
- Assembled and tested an audio amplifier from schematic to working prototype.
- Designed and implemented an LED lighting system for a kiosk machine.

Internpe (Embedded Systems)

Ongoing

- Worked on embedded applications and real-time systems.

Projects

Carbon Footprint Monitoring System

April 2024

- Developed an IoT-based system to monitor carbon monoxide and soot levels.
- Implemented sensor-based real-time air quality monitoring.
- Classified pollution levels and provided safety insights.
- Received 2nd prize in UDAAN competition.

Automatic Traffic Control System

April 2025

- Designed a traffic control system using ESP32 and IR sensors.
- Adjusted signal timing based on vehicle density.
- Displayed real-time traffic data on an OLED display.

Technical Skills

- **Programming Languages:** Embedded C, Python, Verilog, Basic C++
- **Tools & Platforms:** STM32CubeIDE, Arduino IDE, MATLAB, Tinkercad
- **Technologies:** Embedded Systems, IoT, ESP32, STM32, Sensor Integration
- **Core Concepts:** Circuit Design, Hardware Interfacing, Real-Time Systems

Certifications

- Microcontroller Embedded C Programming (Udemy)
- Honeywell Future Skills Program on Artificial Intelligence
- Cisco Networking Academy – Networking Basics