

Omkar Kadam

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SUMMARY

Embedded Systems trainee at C-DAC (PG-DESD) with an ETC engineering background. Experienced in Embedded C, Linux, RTOS, device drivers, and IoT protocols, with hands-on work on microcontrollers and sensors. Interested in developing reliable and efficient embedded systems for real-world applications.

EDUCATION

Post Graduate Diploma in Embedded Systems (PG-DESD) <i>Centre for Development of Advanced Computing (C-DAC) ACTS, Pune</i>	Aug 2025 - Feb 2026 <i>Grade: A</i>
Bachelor of Engineering, Electronics & Telecommunication <i>ISB&M College of Engineering, Pune</i>	Aug 2021 - June 2025 <i>CGPA: 8.02/10</i>
Higher Secondary School Certificate, State Board <i>Sayajirao Junior College, Satara</i>	2021 <i>Aggregate: 80.33%</i>
Secondary School Certificate, State Board <i>Yashwantrao Chavan High-school, Pimpode bk</i>	2019 <i>Aggregate: 86.20%</i>

TECHNICAL SKILLS

Programming Languages: Embedded C, C++, Python
Embedded Systems: STM32, ESP32, Zephyr RTOS, Free RTOS, Embedded Linux, AWS IOT, GPIO
Communication Protocols: UART, SPI, I2C, CAN (Basics), Bluetooth Low Energy (BLE), WiFi, MQTT / HTTP
Tools & Debugging: Linux Command Line, VS Code, STM32CubeIDE, Git

PROJECTS

Cold Chain Monitoring System	Github
- Built a cold chain monitoring system using STM32 sensor nodes to continuously measure and control temperature inside warehouse cold boxes. - Set up BLE communication between STM32 slave nodes and an ESP32 gateway for smooth and reliable data transfer. - Worked with ESP32 running Zephyr RTOS to scan BLE devices, collect sensor readings, add timestamps, and handle multiple tasks efficiently. - Enabled Wi-Fi connectivity on the ESP32 to push real-time temperature data to the AWS cloud for monitoring and storage. - Developed cloud-side dashboards and alert mechanisms to detect temperature variations and maintain cold storage compliance.	
Camouflage Advanced Military Spy Robot	Github
- Developed a camouflage-enabled military spy robot designed for surveillance and reconnaissance in sensitive environments. - Implemented color and environmental sensing to allow the robot to adapt its appearance and blend with surroundings. - Integrated multiple sensors and a microcontroller for real-time data acquisition and intelligent decision-making. - Enabled wireless communication to transmit sensor data and system status to a remote monitoring station. - Worked on motion control, navigation logic, and hardware-software integration for reliable operation.	

EXTRA-CURRICULAM ACTIVITY

- Actively participated in group discussions and technical presentations during C-DAC training to improve communication and teamwork.
- Regularly explored embedded systems concepts through self-learning, hands-on experiments, and mini hardware testing.
- Assisted peers in understanding Embedded C, microcontroller basics, and communication protocols.