

Mohammad Kazim

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OBJECTIVE

Passionate Embedded IoT Engineer with experience in microcontrollers, firmware development, and IoT connectivity. Skilled in designing and optimizing real-time embedded systems for smart applications. Seeking an opportunity to leverage my expertise in C++, FreeRTOS, MQTT, and Cloud IoT.

EDUCATION

- **Bharati Vidyapeeth Deemed University, Pune** 2021 – Present
B.Tech in Electronics Communication Engineering, CGPA: 8.20
- **Senior Secondary School, CBSE** 2019 – 2021
12th Grade, Percentage: 80%

WORK EXPERIENCE

- **Steel Authority of India Limited (SAIL)** Jun 2024 – Aug 2024
Internship: Embedded Developer
 - Developed embedded firmware for industrial IoT systems, enhancing performance by 20%.
 - Optimized communication using UART, I2C, and SPI on ESP32.
 - Debugged circuit designs and reduced system failures by 15%.
 - Contributed to PCB design and sensor-based application prototyping.
 - Documented firmware architecture for project continuity.

IOT & EMBEDDED PROJECTS

- **ECG Signal Using Arduino** Feb 2025
 - Real-time ECG monitoring using Arduino and OLED display.
 - Data logging for future analysis and waveform visualization.
- **LoRa-Based Smart Agriculture System** Oct 2024
 - Long-range farm monitoring using LoRa and ESP32.
 - Integrated soil moisture and temperature sensors with cloud support.
- **Smart Home Automation System** Jun 2024
 - Voice-controlled automation via MQTT and ESP32.
 - Enabled IoT-based control for household appliances.
- **IoT Weather Station** Dec 2023
 - Real-time weather tracking using ESP8266 and DHT11.
 - Remote data visualization on Firebase cloud dashboard.

SKILLS

- **Programming:** C++, Embedded C, Python (Intermediate)
- **Microcontrollers:** ESP32, STM32, Arduino, Raspberry Pi
- **Embedded Systems:** FreeRTOS, Zephyr, Embedded Linux
- **IoT Protocols:** MQTT, HTTP, LoRa, BLE, Modbus
- **Tools:** Arduino IDE, VS Code, Keil, STM32CubeIDE, Git
- **Security:** TLS/SSL, AES Encryption, Secure Boot

CERTIFICATIONS

- **IoT Specialization** — Coursera, 2025
- **Mastering FreeRTOS** — Udemy, 2024
- **IoT Fundamentals: Connecting Things** — Cisco Networking Academy, 2024