Om Prakash

Software Engineer (C/C++ Embedded Systems)

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Summary

Embedded systems engineer with 6+ years in C/C++, RTOS, and firmware development for IoT devices. Experienced with UART/SPI/I2C, device drivers, and hardware bring-up. Minimal background in Java, enterprise web stacks, or MES.

Core Skills

C, C++, FreeRTOS, Zephyr (basic), STM32, ESP32, ARM Cortex-M, UART/SPI/I2C, BLE (GATT), MQTT, Yocto (basic), Git, CMake, Unit Testing (Ceedling), JIRA, Agile.

Experience

Senior Embedded Engineer — MicroNova Devices (Jaipur) | 2021–Present

- Developed sensor data acquisition firmware with DMA and low-power modes on STM32.
- Implemented OTA update mechanism over BLE + Wi-Fi and built bootloader safeguards.
- Authored unit tests/mocks for drivers; reduced field defects by 18%.

Embedded Engineer — EdgeTech Labs (Jaipur) | 2018–2021

- Wrote HAL drivers for SPI/I2C peripherals and integrated MQTT telemetry to cloud.
- Participated in design reviews, hardware bring-up, and board testing.

Education

B.Tech, Electronics & Communication — MNIT Jaipur

Certifications

- ARM Accredited Engineer (AAE) — Embedded Systems (2019)

> **Note:** Focused on embedded/firmware; **no Java/Spring/UI (Swing/Vaadin)**, **no MES/ERP** integration experience (intentional low match).