

Resume 27: Embedded Systems Engineer

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Summary: Embedded Systems Engineer with 4 years of experience in firmware development, microcontroller programming, and IoT solutions. Expert in C/C++ programming and hardware-software integration.

Skills: C/C++, Embedded C, ARM Cortex, Arduino, Raspberry Pi, RTOS, I2C, SPI, UART, PCB Design, IoT, Sensors

Experience: Embedded Systems Engineer – IoTech Solutions (2021-2024)

- Developed firmware for IoT devices and sensor networks

- Programmed ARM Cortex microcontrollers for industrial applications

- Integrated wireless communication protocols (WiFi, Bluetooth, LoRa)

- Optimized power consumption for battery-operated devices

Firmware Developer – EmbeddedPro Systems (2020-2021)

- Created device drivers for various peripheral interfaces

- Implemented real-time operating systems for embedded applications

- Debugged hardware-software integration issues

Education: B.E in Electronics and Communication – Anna University (2016-2020)

Projects:

- Smart Home System: IoT-based home automation with mobile app control

- Industrial Monitoring: Sensor network for real-time factory monitoring

- Wearable Fitness Tracker: Low-power device with heart rate monitoring

Certifications: ARM Accredited Engineer, IoT Fundamentals – Cisco