

[Full Name]

[Phone Number] | [Email Address]

[LinkedIn Profile URL] | [GitHub/Portfolio Link]

[Date]

[Hiring Manager Name]

[Company Name]

[Company Address]

RE: Embedded Systems Software Engineer - [Job Reference ID]

Dear [Hiring Manager Name],

I am writing to express my interest in the Embedded Systems Software Engineer position at [Company Name]. With a strong background in [C/C++] programming and low-level hardware abstraction, I am eager to contribute to your team's development of [specific product or technology mentioned in job post].

Core Technical Proficiency:

- **Architectures:** [e.g., ARM Cortex-M, AVR, RISC-V, ESP32]
- **RTOS/OS:** [e.g., FreeRTOS, Zephyr, Embedded Linux, Bare-metal]
- **Protocols:** [e.g., UART, SPI, I2C, CAN bus, BLE, TCP/IP]
- **Tools:** [e.g., Oscilloscopes, Logic Analyzers, JTAG/SWD, GDB, Docker]

During my tenure at [Current/Previous Employer], I successfully [describe a major achievement, e.g., optimized memory footprint by 30% or reduced power consumption for a battery-operated device]. I am particularly skilled in writing firmware that interfaces directly with sensors and actuators while ensuring real-time performance and system stability.

I am drawn to [Company Name] because of your recent work in [mention a specific project or company achievement]. My experience in [specific domain, e.g., Automotive, IoT, or Medical Devices] aligns perfectly with the requirements of this role.

Thank you for your time and consideration. I look forward to discussing how my technical skills can support the engineering goals at [Company Name].

Sincerely,

[Your Signature]

[Your Typed Name]