

[Your Full Name]
[Your Phone Number]
[Your Email]
[Portfolio/GitHub Link]

[Date]

[Hiring Manager Name]
[Company Name]
[Company Address]

Dear [Hiring Manager Name],

I am writing to express my interest in the **Embedded Systems Engineer** position at [Company Name]. I was referred to this opportunity by [Referral Name], who currently works as a [Referral's Job Title] within your [Department Name] team.

Having collaborated with [Referral Name] previously at [Past Company/Context], they suggested my technical background in hardware-software co-design and real-time operating systems would align well with your current development goals for [Specific Project or Product].

In my recent role at [Current/Previous Company], I specialized in:

- Developing and debugging firmware in [C/C++] for [Microcontroller Architectures, e.g., ARM Cortex-M].
- Optimizing low-level drivers for [Communication Protocols, e.g., I2C, SPI, CAN].
- Implementing [RTOS/Bare-Metal] solutions to improve system latency by [Percentage/Value].
- Collaborating with hardware teams on PCB bring-up and power management optimization.

I have long admired [Company Name]'s work in [Specific Industry/Technology], particularly your recent innovation in [Specific Product]. I am confident that my experience in hardware abstraction and system-level troubleshooting will allow me to contribute immediately to your engineering cycles.

I would appreciate the opportunity to discuss how my technical skills can support [Company Name]'s upcoming projects. Thank you for your time and for considering my application through [Referral Name]'s recommendation.

Sincerely,

[Your Signature]
[Your Printed Name]