Sidharth Mehta
2136, Gorman St.
Raleigh, 27606

Dear reviewer,

I am a student at North Carolina State University pursuing a Master's in Computer Engineering with relevant courses in Embedded System domain. I would bring to your company a broad range of skills, including:

- Firmware development for ARM microcontrollers in C (STM32, NXP).

- Program on single board computers like Raspberry Pi using C/C++/Loadable kernel modules.

- Debugging systems using logic analyzer to ensure correct operation.

- Scripting using python/bash.

- Profiling and Optimizing code on embedded systems for speed, responsiveness, memory, and power.

- Experience with implementing USB, UART, SPI and I2C protocols.

- Knowledge of basic concurrency and scheduling concepts and how to implement them with help of RTOS.

- Optimization of code on Linux based embedded systems with help of SIMD instructions.

- Version control using GIT.

- Familiarity with Object Oriented Design using C++.

- Experience with circuit design and prototyping.

- Basic concepts and mechanisms related to the design of modern operating systems (process creation, threads, scheduling, synchronization).

I would welcome the opportunity to further discuss this position with you. If you have questions or would like to schedule an interview, please contact me by phone at **(+1) 919-771-4390** or by email at **sidharthmehta@outlook.com**.

Sincerely,
Sidharth Mehta