Boston, MA
November 13, 2025

Hiring Team
Formlabs
Somerville, MA

Re: Electrical Engineering Intern — Winter/Spring 2026 (Jan 12–Apr 24)

Dear Formlabs Hardware Team,

I am a Master of Science student in Internet of Things at Northeastern University applying for the Electrical Engineering Intern role in Somerville for Winter/Spring 2026. My background spans microcontrollers, sensors, and electromechanical bring-up with C firmware, Python test scripts, and bench validation using oscilloscopes, logic analyzers, and structured pass–fail test plans. I enjoy moving between analog and digital domains and documenting clear procedures so other engineers can reproduce results quickly.

Recently, I built a microcontroller-based vitals system on ESP8266 in C with Python provisioning and test harnesses. The pipeline published ECG, SpO_2, and BP over MQTT/HTTP with $< 2\,\mathrm{s}$ telemetry and $> 90\%$ agreement across 10+ validation runs. To make the work repeatable, I added health checks, retries, and timestamped logs, plus wiring diagrams, acceptance checks, and a short SOP that enabled fast bench bring-up and clean handoff.

I am comfortable designing small embedded subsystems, bringing up interfaces (UART, I^2C, SPI, GPIO, timers), writing C state machines and Python test tools, and tracing signals to root cause issues. I like turning requirements into tests and results, collaborating with EE, firmware, and mechanical partners to land practical solutions that are robust and manufacturable.

I will be onsite full-time from January 12 to April 24, 2026. I can share a concise portfolio with photos of setups, brief schematics/notes, scope captures, and code excerpts that show my approach to bring-up, validation, and documentation.

Thank you for your time and consideration. I would welcome the opportunity to support the Formlabs Hardware team in designing, prototyping, and validating electronics and electromechanical subsystems this term.

Sincerely,

Sonu Kanagala
Boston, MA
kanagala.so@northeastern.edu
(857) 492-5365
linkedin.com/in/-sonu