



# Job posting: Embedded Firmware Engineer

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## Overview

Come work for a new AI and medical device startup in Northern Virginia, an innovation hub that is home to the biggest technology giants in the world. Lantern was founded in 2017 and is deploying machine vision and artificial intelligence solutions at the device level to bring disruptive products to market. We're working on things you've never seen before. We need pioneers, thought leaders and problem solvers who attack challenges with creativity and artfulness. We are focused on a mission to build products that are not just impactful, but that save lives with cutting-edge technology.

We offer a full benefits package, competitive salary, and flexible work schedule in a dynamic engineering environment.

### Tasks:

- Firmware development for a novel medical device supporting the cardio-vascular system
- Embedded firmware programming using C, C++, and python
- Firmware includes sensor drivers for measuring flow, temperature, pressure, heat, etc., as well as managing system processes such as timers, interrupts, and task schedulers
- Work with Debian-based operating systems in single-board computers, SoC devices, IoT products, and Yocto build systems and distribution
- OTA updates of new Yocto builds
- Interfacing with hospital Electronic Medical Records (EMR) systems
- Back-end support of a Graphical User Interface using QT
- Data analysis and visualization using Matlab, spreadsheets, etc.

### Skills:

- Demonstrated ability to troubleshoot software problems, including multi-threaded applications, memory leaks, dependency issues, etc. is required.
- Experience in robotics, remote sensing systems, or other remote IOT systems is desired
- Motivated maker with demonstrated performance building prototypes outside of school or work
- Demonstrated experience in programming at the embedded level using best software practices such as version control, unit testing, and verified release for production

Required:

- Bachelor of Science from an accredited institution in Computer Science, or Computer Engineering is desired, but candidates with demonstrated expertise or equivalent experience in relevant fields will be given equal consideration.
- Master of Science desired
- 3+ years experience desired

To apply, email resume to [info@lantern.systems](mailto:info@lantern.systems) Include all relevant materials and project demonstrations such as website, YouTube page, publications, etc. to be considered among the top applicants.