

## Embedded Engineer

- ➔ Location: Chicago, IL
- ➔ Start date: May 2019
- ➔ Type: Full time

### About Neopenda

Interested in building something that will literally save lives? At Neopenda, we're revolutionizing health tech in emerging markets. We started this journey because we've learned firsthand about the challenges in healthcare in low-resource settings, and as biomedical engineers we knew we could leverage IoT technology and user-centric design to create better, more affordable tools for emerging markets. Our first product is a 4-in-1 wearable vital signs monitor for newborns that provides real time data to nurses on a tablet. We are a diverse and passionate team, dually-based in Chicago and Kampala, Uganda, dedicated to building a massive medical device company that is saving lives globally. Learn more about us online: [www.neopenda.com](http://www.neopenda.com)

### Position Overview

We're seeking a skilled firmware engineer to join our product development team. You will be hands-on designing and executing embedded firmware development projects as we test and finalize our product. You will also be involved in monitoring, servicing, and iterating on product post-launch, and in R&D of additional products. You will work alongside our CTO, software engineer, and product development partners, and will help build our engineering team as Neopenda continues to grow. Tasks and responsibilities include:

- Power optimization
- Algorithm integration
- Testing, stabilizing, debugging the system in collaboration with the Android software side
- Implementing new features driven by user needs and regulatory requirements
- Implementing security measures in the device firmware and wireless data communication
- Additional responsibilities will evolve based on product needs & your input

### Qualifications

- BS/MS in Computer Science or Computer Engineering (ECE)
- Proficient in C and MATLAB
- At least 2 years experience in practical embedded firmware development, with RTOS experience
- Experience with Bluetooth Low Energy® devices and wireless architecture development
- Experience with debugging embedded hardware with JTAG or vendor SDK tools
- Experience with embedded device drivers
- Experience with source code versioning and management concepts
- Experience implementing proper test coverage and maintaining production environments & codebase
- Strong communication and teamwork skills
- Excitement for building impactful technology

### Nice to have

- Experience working on medical devices
- Experience with ISO13485 and IEC 60601-1 regulatory requirements
- Experience with embedded hardware bringup
- Experience with Nordic (nRF5) SDK version 15.3.0
- Experience with algorithm development and biosignals processing, particularly PPG algorithms
- Experience with python or similar scripting tools

## Why join Neopenda?

- We're a scrappy and enthusiastic team building something new, pioneering health tech in emerging markets. We've got our sights set on massive impact in global health.
- You'll have significant ownership over the firmware of the device and your work will quickly and directly impact our product and the lives of the vulnerable patients we serve.
- It's an opportunity to join a fast-growing Chicago tech startup as an early team member.

If you are interested in this position, please send a CV to [careers@neopenda.com](mailto:careers@neopenda.com) by April 19<sup>th</sup>, 2019.