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Job Description: Principal Firmware Engineer Cala Health, Inc.

About Cala Health

Cala Health is a bioelectronic medicine company transforming the standard of care for chronic disease. The company's wearable neuromodulation therapies merge innovations in neuroscience and technology to deliver individualized peripheral nerve stimulation. Cala Health's lead product, Cala Trio™, is the only non-invasive prescription therapy for essential tremor and is now available through a unique digital business model of direct-to-patient solutions. New therapies are under development in neurology, cardiology, and psychiatry. The company is headquartered in the San Francisco Bay Area and backed by leading investors in both healthcare and technology. For more information, visit CalaHealth.com.

The Opportunity

Cala Health is seeking a Principal Firmware Engineer to join our growing team. The role will work on the stack from hardware support to the application itself, leading the development of new firmware technology on low power, wearable embedded systems.

Specific Responsibilities also include:

- Assist in component selection process, particularly as it pertains to lower power applications
- Develop support for hardware / peripherals including motion sensors, flash memory, analog hardware, wireless communication
- Develop application and system drivers
- Develop system technologies, such as data management and transport
- Implement data processing algorithms in an efficient way
- Implement user interfaces
- Optimize code for low power applications
- Develop software accessories for interacting the embedded systems, such as manufacturing tools or patient/physician facing applications

Desired Skills and Experience

- We are looking for a Principal Firmware Engineer to drive systems engineering in a dynamic, fast-paced startup environment, exemplified by:
- MS, or PhD in Computer Science, Computer Engineering, or Electrical Engineering
- 5 years experience working in firmware applications for wearables and ultra low power / ultra small footprint design
- Experience with microcontrollers, including Cortex M0, M3, M4

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- Experience with relevant technologies such as WiFi, BLE, 3G/4G, hardware debug, sensors
- Comfort with hardware debugging.
- Experience with C and Python; comfort across multiple programming languages and platforms, with experience with C#/C++ preferred
- Experience in Medical Device is a plus.

