

## Job description: Embedded Software Engineer

### Company

Wearable Brain is a stealth startup developing an electronic brain to augment our biological brain. We are investing in some major technological breakthroughs to make this happen: ultra-low power communication (50x lower than BLE), ultra-low power sensing, and computation (100 micro-watt keyword detection, object detection, imager, and speech transcription among others). We are assembling a team of the leading experts in the field of IC/system design/computer vision/ hardware engineers with an appetite for taking on the next big thing.

We are backed by well-known Venture Capital firms and corporate VCs. Come join us in the journey of transforming the future.

### Team and Role Overview

Wearable Brain is looking for a talented embedded software engineer to join our rapidly growing startup. As a member of the Integrated Software team, you will help build low-level software for wearables.

### Candidate Profile

You have experience bringing up new, custom embedded computer designs, from bootloaders to operating systems and device drivers. At Wearable Brain, the software you develop will be a core piece of a software system that controls the human-computer interaction.

### Skills We're Stoked About

- BS in Electronics/Electrical/Computer Engineering, Computer Science or equivalent.
- Experience in an innovative IoT product development environment, preferably wearables.
- Hands-on experience with full-stack MCU firmware development.
- Excellent C/C++ for embedded systems development.
- Experience with the following communication interfaces: I2C, SPI, BLE.
- Experience developing for low-power ARM MCU and its power optimization.

### Preferred skills

- Advanced degree in Electrical Engineering, Computer Engineering, Computer Science, Electronics, or equivalent.
- Experience with low-level HW interfaces and low-level debugging.
- Strong hardware/electrical know-how. You know how to test if your firmware works as expected by probing the hardware using a multimeter, oscilloscope, spectrum analyzer, etc.

- Experience with Wi-Fi, Bluetooth, Ethernet and USB communication protocols.
- Embedded project hobbies.
- Experience with PCB design.
- Experience with toolchains and setting up a custom build environment.

The position can be remote but requires regular visits to our West Lafayette, IN (Purdue Research Park) office.