Electrical Subteam Member

We are seeking motivated individuals to join our Electrical Subteam. Our Electrical Subteam is responsible for building the wearable device that gathers biometrics in our current project, Project Beacon. The building of such a device constitutes configuring the functionality and accuracy of different biometric sensors, programming microcontrollers to process biometric sensor data, developing a final PCB for the device, as well as using spice tools to perform simulations for customized IC's (integrated circuits). Basic electrical skills, such as using the oscilloscope, signal generator, breadboarding, etc are required. Preference will be given to applicants who have shown past experience in circuitry software (Spice, etc), microcontroller programming (Arduino, Raspberry Pi, etc), PCB development, and low-level programming (C/C++, etc).

What the Team Does:

- Build the wearable device to gather biometrics.

Role Description:

- Configuring functionality and accuracy of different biometric sensors

- Programming microcontrollers to process biometric sensor data

- Using spice tools to perform simulations for customized Integrated Circuits

- Developing a final PCB for wearable

Basic Skills:

- Basic electrical skills.

Preferred Skills:

- Low level programming (C/C++, etc)

- Circuitry software (Spice, etc)

- Microcontroller programming (Arduino, Raspberry Pi, etc)

- PCB development

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