

Senior Hardware & Firmware Engineer

Company Overview |

Frontier is on a mission to make hundreds of millions of critical frontline workers superhuman through a hardware and software "wearable". The company is headquartered in Chicago and in stealth mode. Frontier has multimillion dollar contracts with the U.S. Department of Defense (including Special Operations) and has raised funding from tier 1 investors, including the first investor in Oculus (AR/VR company sold to Meta). The company has more than 10 of the most critical U.S. companies as customers, including the largest U.S. steel company and two of the top five U.S. airlines, and has an extremely talented and ambitious team.

Job Description |

Frontier is looking for an extremely smart and hardworking Senior Hardware and Firmware Engineer who wants to do the most important work of their life. The selected individual will own critical aspects of product development, and their work will have extreme impact on the productivity, safety, and comfort of the critical frontline workers and warfighters powering and protecting the world. Being scrappy, resourceful, and flexible is critical to this role and it is 100% in-person in Chicago (Frontier will provide relocation assistance (along with significant equity and cash compensation)).

This role is ideal for someone who wants to (1) be a cornerstone member of a rapidly growing team and (2) iterate quickly on the cutting edge while growing.

Responsibilities |

- Lead hardware engineering for internet-connected and battery powered wearable with immensely tight size, power, and weight constraints
- Design PCBs (including PCB layout) and electronic architecture for systems with RF/internet, battery management, audio, and visual components
- Develop firmware at driver and system levels to validate hardware core functionality
- Rapidly prototype and test systems before working with assembly houses / contract manufacturers to mass produce
- Collaborate closely with software (AI, ML, embedded), acoustic, mechanical, and other engineers

Qualifications |

Required

- 3+ years designing hardware for battery powered and connected devices (phones, laptops, radios, smart watches, earbuds, headphones)
- 5+ years doing PCB layout/design, prototyping, and testing in software like Altium



- 5+ years of doing interesting/crazy projects outside-of-work/school
- 2+ years of embedded software experience in C or C++
- Dedication to creating products at the frontier delivering unprecedented capabilities to huge underserved end-users critical to society
- Strong understanding of SOCs from companies like Qualcomm and overall system architecture
- Self-driven engineer who can independently prioritize and "get things done"
- Must have ability to be qualified to work in the U.S. in less than 3 months and have no restrictions for international travel
- Ability to commute to Frontier Audio Labs' Chicago office daily

Preferred

- 10+ years of doing interesting/crazy projects outside-of-work/school
- Experience designing 4G/LTE or 5G connected devices and/or DMR radios
- Experience with headphones/earbuds
- Experience designing systems around the Qualcomm Snapdragon platform
- No degree is required

The applicant must be a flexible, results-oriented problem-solver who is passionate about introducing large-scale innovation to make critical frontline workers and warfighters safer and more effective.

Frontier Audio Labs evaluates qualified applicants without regard to race, color, religion, sex, sexual orientation, gender identity, genetic information, national origin, age, disability, veteran status, or any other legally protected characteristics.

All inquiries should be directed to pmoeckel@frontieraudio.com.

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