FRONTIER
AUDIO LABS

Senior Embedded Software Engineer

Company Overview |

Frontier Audio Labs, based in Chicago, is a stealth-mode startup developing game-changing audio, computer, and wearable devices for industrial and military end-users. It has a close-knit team of elite engineers, funding from the United States Department of Defense, and significant ambition.

Job Description |

Frontier Audio Labs is looking for extremely hardworking and resourceful candidates with experience in embedded software systems. As a member of a very small team, candidates should expect to own immense aspects of the R&D and product development process while learning and adapting quickly. "Crazy ideas", being scrappy, and having fun are tenants of the culture as well as focus and hard work, fundamental requirements to reach our goals. Frontier Audio Labs is an ideal company for those looking to be a cornerstone member of a quickly growing and motivated team developing next generation audio-centric products and technologies. Lastly, while Frontier Audio Labs as a startup may not be able to offer top-bucket cash compensation starting off, this position will include a significant (multiple percent) equity stake.

Responsibilities |

- Drive development and implementation of embedded software for company's devices
- Implement cutting-edge technologies
- Quickly prototype and test software on hardware
- Contribute to long-term hardware and software architecture and strategy
- Collaborate closely with acoustic, DSP, and mechanical engineers
- Work with algorithm, chip, and other vendor partners
- Develop IP to strengthen company's quickly growing portfolio

Qualifications |

Required

- Dedication to creating products stretching the boundaries of possible
- 5+ years of software design, coding, and debugging experience with C in an embedded environment
- 5+ years of experience working with microcontrollers, and familiarity with standard communication protocols like, I2C, SPI, UART and I2S

- 5+ years of general experience (including personal time or school) with hardware/electronics with substantial proficiency in soldering, rework, etc. and using electronic testing equipment such as multimeters, signal generators, logic analyzers and oscilloscopes
- 2+ years of experience developing firmware for new electronics product entering production
- Experience with radio engineering and/or communication standards like WiFi and Bluetooth
- Experience developing software for Qualcomm, ADI, Greenwaves, or Airoha chips
- 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 on a daily basis

Preferred

- Experience developing software for battery powered consumer electronics devices
- Experience developing algorithms using MATLAB & Simulink
- Experience with circuit design and assembly
- Experience developing for real-time audio (sample rates, buffering, PCM, drivers)
- Members of our engineering team have degrees in Software or a similar field (DSP or electrical engineering, physics, etc.), but if you have taken a different route to gain the required experience, that is acceptable

The applicant must be a flexible, results-oriented problem-solver who is passionate about introducing large-scale innovation into the audio industry.

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.