ALTUS
THERMAL

Senior Embedded Software Engineer

About Altus Thermal
Altus Thermal is developing a smart, high efficiency heat pump product for the residential market. Our product is designed for the age of electrification and will increase comfort while reducing operating costs, lowering emissions, and providing benefits back to the grid.. Altus is based at Greentown Labs in Somerville, Massachusetts.

The Role, At-a-Glance
Altus is seeking a Senior Embedded Software Engineer to take a hands-on role in the day-to-day software development of Altus's product. We are seeking an individual who can architect, design and implement quality embedded firmware code, including but not limited to controls. The individual we are seeking should be creative with an aptitude to learn new things and an excellent team player. This is an onsite in the Boston area.

What Will I Do?
- Design and develop production-quality code in the control algorithm and other embedded systems
- Leverage software development best practices to maintain good codebase documentation while also defining requirements, test plans, and specs
- Complete code reviews, both as reviewer and as reviewee
- Brainstorm improvements to architecture and development process
- Work with cross functional team members to implement and test your code on prototypes in both the lab and field
- Integrate third-party software where available
- Get your hands dirty - everything from assisting with hardware selection, deploying and testing your code on production intent hardware, to helping the team install test pilots and more

What Qualifications Do I Need?
You have a proven track record in software development, including:
- BS in Computer Science or Engineering, or a similar technical field, and/or at least 4-6 years of equivalent experience in production-grade software design and development. Must be comfortable with the tools of the trade (SCM, bug tracking, unit testing, collaborative dev tools, etc.)
- Experience working with FreeRTOS and/or ESP32
- Versatile embedded development skills are required (bare metal code and libraries; C language skills; device drivers, including basics such as GPIO, SPI, I2C, serial/UART)
- Must be able to debug hardware/software interfaces. Knowledge of basic electronics and comfort with schematics and basic tools (e.g. scopes, multimeters, logic analyzers) is essential
- Familiarity with standard OS features (threading, memory and storage, I/O, etc.) is strongly desired
- High comfort level within a fast-paced environment - you'll be helping to build from the ground up so it's important to be flexible and capable of adapting to moving targets
- Self-starting attitude - while Altus is a highly collaborative team environment, we're looking for candidates who can take take a general direction then run with it and make it their own
- Extra credit if you have experience in any of the following: consumer products; manufacturing, IOT/connected products; control theory, MATLAB, Simulink; thermal sciences; heat pumps

Want to Learn More?
Please email careers@altusthermal.com with your resume, portfolio, and brief thoughts on:
- Why are you interested in joining a climate tech company/how does it fit with your goals?
- When the time comes for reference calls, what will your colleagues say about you?
- What's your proudest professional achievement? Why?