Embedded Software Engineer

Description

WaterFurnace International, the most respected name in geothermal heat pumps for both residential and commercial applications, seeks a skilled professional to program embedded controls for various product applications.

Our mission is to bring energy efficient products and technologies to our Customers. This position supports the product development of geothermal heat pumps for residential and commercial applications, with industry-leading functionalities that efficiently deliver the highest levels of comfort and system performance.

Duties

The Embedded Software Engineer is responsible for the design and development of product controls, analysis, design, coding, testing and documentation of real-time embedded software for the WaterFurnace products, and support of Engineering teams and other internal customers on controls-related matters.

Reporting to the Software Engineering Manager, your duties would include the following:

- Analysis, design, coding, testing and documentation of real-time embedded software.
- Analysis of product application needs and field issues, integrating inputs from Sales, Marketing, Warranty, and Field Technical resources into software design.
- Writing program code, documenting the step-by-step engineering architecture development process that was followed. Write ECO’s for releasing the code and specification. Contribute to the creation of the product manual.
- Writing test procedures and supporting field and lab testing to ensure efficient and effective systems operation that meets design requirements.
- Participating in software inspections and design reviews.
Qualifications

Required:

- BS degree in Electrical Engineering; Computer Engineering or Computer Science.
- Minimum of 3 years of experience developing embedded applications with programming in C, Assembly language.
- Good working knowledge of networking protocols (Modbus, BACnet, LON, TCP/IP).
- Experience with engineering tools such as debuggers, emulators, version control, compilers/assemblers.
- Possess excellent organizational skills, oral and written communication skills, time management skills, and demonstrated ability to work in self-directed fashion.

Preferred:

- Experience developing embedded applications on Microchip PIC microprocessors.
- HVAC Controls System Design experience.

WaterFurnace's 115,000-square-foot headquarters serves as a model for geothermal installations worldwide. Our innovative approach, state-of-the-art business systems and outstanding work environment combine with our excellent benefits to make WaterFurnace your Employer of Choice: Medical, Dental, Prescription, Vision, Employee Tuition Assistance, paid Sick/Personal time, Vacation Pay, Holidays, Life Insurance, Flexible Savings Accounts, Short- & Long-Term Disability Pay, and 401(k) Savings with Company Match, and Employee Bonus Program.

WaterFurnace International, Inc. is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.