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Senior Firmware Engineer – IBC® Canada (Burnaby)

About Us

IBC Technologies Inc. is a leading manufacturer of high-efficiency boilers and water heaters for residential and commercial use in North America and a proud member of the Rheem Manufacturing Company family of brands. For over 25 years, IBC has been at the forefront of innovation in the heating industry.

Here at IBC, we operate on the basis of accountability, integrity, quality, openness, and teamwork. The strength of these values is apparent in our team members, who strive to live them every day. It is this culture that has allowed us to exceed customer expectations, outperform our competitors, build strong relationships and above all, have fun doing it with a lot of great people!

Position Title

Senior Firmware Engineer

Position Summary

The Senior Firmware Engineer will lead the development and testing of the controller software for our latest residential and commercial condensing boilers.

Location: Burnaby, BC

Reporting to: Senior Director, Engineering

Essential Functions

- Drive, design, code, test, and validate embedded software in Linux or RTOS controller environments, delivering new and enhanced features to heating automation systems.
- Help maintain existing designs and solutions.
- Define and create product software specifications, including system design, feature descriptions and application notes of functional blocks.
- Lead our forward development in continuous deployment and software test automation.
- Create, document, execute software test plans and analyze the results.

Qualifications

Education:

- Post-secondary degree in Computer Science, Computer Engineering, Electronics Engineering or similar fields.

Work Experience:

- Significant work experience in embedded Linux or RTOS development using C/C++ in a resource-constrained environment.
- Experience leading a team of developers on an embedded project.
- Experience with embedded Linux, application, kernel or board support level.
- Experience working with continuous improvement tools and automated software testing systems.

- Experience with SQL or other database systems.
- Experience developing and following written test plans/procedures.

Knowledge, Skills, & Abilities:

- Knowledge of Python and Bash scripting languages.
- Working knowledge of Jira Cloud and Agile development.
- Working familiarity with real-time operating systems and multi-threaded application development.
- Knowledge of control systems and experience with Matlab and Simulink.
- Working knowledge of hydronic systems is an asset.
- Ability to systematically work through a problem and find creative solutions to issues.
- Desire and ability to research and learn independently.
- Knowledge of Multi-meters, Oscilloscope, Function Generator or other test equipment.
- Excellent verbal and written communications skills.
- Ability to work effectively alone and in a team environment given project time restraints.

Apply

We want to hear from you if you think there is a fit! To apply, please email your application to ibc.hr@ibcboiler.com with the job title in the subject line.