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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

Firmware Engineer

Position Summary

The Firmware Engineer will support the development and testing of our latest residential and commercial condensing boilers and their controllers.

Location: Burnaby, BC

Reporting to: Senior Director, Engineering

Essential Functions

- 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.
- Create, document and 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:

- Prior experience in embedded Linux or RTOS development using C/C++ in a resource-constraint environment.
- Prior experience with embedded Linux, application, kernel, or board support level.
- Prior experience with SQL or other database systems.
- Prior experience developing and following written test plans/procedures.
- Prior experience with the STM32 MCU is an asset.

Knowledge, Skills, & Abilities:

- Working knowledge of Python and Bash scripting languages.
- Working familiarity with real-time operating systems and multi-threaded application development.

- Working knowledge of control systems and experience with Matlab and Simulink are assets.
- 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.
- Working 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.

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.