



Subject: Embedded Firmware Engineer

Company Overview

Gastronomous is a fast-paced, dynamic start-up focused on revolutionizing how food is prepared, served, and enjoyed worldwide! Having developed Canada's first fully autonomous kitchen (video attached: <https://youtu.be/KUXX4vl6qAA>), Gastronomous realizes the "Kitchen of the Future" through advanced industrial automation techniques and cutting-edge technologies. We are passionate about creating unique systems for our customers, which address the inefficiencies associated with their cooking processes, supply chain management, and waste disposal; in doing so, we provide them with modernized and effective solutions.

If you are passionate about developing meaningful technology that creates meaningful solutions, then Gastronomous is the place for you! Gastronomous' founders hail from the automotive industry, each of whom has decades of experience designing and building multi-million-dollar automated manufacturing lines. By joining our team, you will be immersed in a dynamic and thought-provoking environment that tests your capabilities and pushes you to new heights. We're looking for an entrepreneurial, innovative Embedded FW Engineer who thrives on solving difficult problems, enjoys thinking outside the box, and will bring a fresh perspective to the table.

Job Description/Responsibilities

This role is geared towards an individual with a can-do attitude and demonstrated passion for innovative technology as well as research & development. If you enjoy pushing yourself to new heights and taking products throughout the entire development cycle, from start to finish, then this position is meant for you!

Gastronomous is looking for an Embedded FW Engineer who can execute a complete embedded development lifecycle. This position is suited for an individual who has excellent analytical and debugging skills. As well, someone who can accelerate/improve the quality of our embedded systems' firmware development, by continuously testing and submitting valuable test reports to enhance development and meet customer/product requirements.

This individual will be central part of our core engineering team and will work closely in power electronic concepts, certification requirements, component selection, UI design, and specifying actuators/sensors. Your primary responsibilities will be to:

- Design and implement embedded firmware in Linux, RTOS, and/or bare metal environments.
- Reach technical goals, propose solutions, and validate those solutions by testing code in the target systems.

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- Track, support, analyze, and verify features/issues and give inputs for driving them to closure.
- Monitor product quality through effective testing strategy, planning, and execution. One should have the ability to create test plans, test jigs, soldering, ability to use oscilloscope, logic analyzers, and software verification techniques.
- Assist in specifying the correct components, actuators, and sensors based on historical test data, certification requirements, and past testing experience.
- Execute test plan to validate firmware. Must be aware of object-oriented programming concepts. Programming languages like C and C++ are a must. Python knowledge is an additional asset.
- Be passionate about our deliverables and work to continuously improve our products so that it can exceed our customers' expectations.
- Analyze and identify both product success/failure modes and develop test suites to validate expected functionality in those scenarios.
- Have a strong familiarity using PWM signals, UART, I2C, and SPI protocols.
- Experience with version control systems such as git.
- Have exposure to MCU architectures.
- Detail-oriented with the ability to prioritize and manage multiple tasks.
- Experience with Linux-based or any RTOS-based multi-threaded system development would be an asset.
- Aware with PCB design software, schematic development, and should be able to learn and follow senior engineers' guidelines to quickly deliver the tested prototype.

Requirements:

To successfully complete these duties, one must be able to generate smart designs, be open-minded, and work efficiently under pressure. Along with this, other requirements include:

- BS degree in Computer Science or Engineering.
- Proven experience in embedded systems design with pre-emptive, multitasking real-time operating systems.
- Critical thinker and problem-solving skills.
- Team player.
- Good time-management skills.
- Great interpersonal and communication skills.
- Knowledge of SolidWorks would be beneficial.

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We look forward to reading every application and welcoming a new, bright mind to Gastronomous shortly!



Kristian Tazbazian
Co-Founder & COO

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INNOVATION

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