

JOB DESCRIPTION FOR:
LEAD EMBEDDED SOFTWARE ENGINEER

Please also include your resume and cover letter when applying.

JOB SUMMARY:

A highly driven individual is sought to join our diverse engineering team for a permanent full-time position. The primary duties involve developing and managing embedded software/firmware and working with state-of-the-art sensors to deploy new products. The successful applicant will manage the company's embedded software in products designed and manufactured by NZ Technologies Inc. in addition to professionally representing the company at remote demonstrations, evaluations, and installations.

JOB DESCRIPTION:

Application Deadline: April 23rd, 2023

Job Types: Full-time

Do you want to join a rapidly growing team that is working on cutting-edge technology and deploying products in multiple industries? NZTech is looking for a passionate engineer that is keen on solving dynamic problems and driving meaningful changes in our products & offerings. The position will focus on leading the software and firmware development within the overall engineering team – including developing and managing software codebases, working with embedded hardware and related communication protocols, and developing and deploying for Windows, Linux, and mobile applications. In addition, the position requires an individual who is able to professionally represent the company and support products at remote demonstrations, evaluations, and installations either locally in Canada or abroad globally.

The successful candidate will work closely with the engineering team in not only software/firmware development, but also embedded microelectronics and sensors. The position not only offers tremendous learning opportunities, but also great potential for career advancement. Most importantly, you will join a high-tech start-up to make a direct impact on the company's growth.

DUTIES/RESPONSIBILITIES:

- Develop and manage embedded software for embedded Linux controllers and microcontrollers
- Develop and manage Linux and Windows software applications that interact with NZTech products
- Developing communication protocols for embedded hardware interfaces (i.e., USB, I2C, SPI, CAN, etc.)
- Work with NZTech-developed sensors and hardware to prototype new product features
- Work directly with R&D personnel to develop and test sensor processing and machine learning algorithms
- Customize and configure demonstration units for customer projects
- Configure, troubleshoot, and support product evaluations and installations
- Manage updates, bug-fixes, software testing, and Git repositories for new hardware/software releases
- Develop a strong technical understanding of NZTech products and how they are deployed
- Actively working with the team to brainstorm, discuss, and solve technical problems

MINIMUM JOB REQUIREMENTS:

The prospective candidate should have the following skills/experience:

- A university degree in Electrical/Computer Engineering, or Computer Science (or the like)
- Minimum 4 years of relevant experience in **embedded** software development
- Developing, deploying, and testing embedded applications
- Developing with wired (i.e., I2C, SPI, USB) and wireless (TCP/IP) communication protocols
- Integrating and processing sensor data in real-time embedded applications
- Comfortable using basic hand tools and working with embedded electronics
- Good programming skills with OOP languages such as C, C++, Python and automation scripting
- Collaborating via version control software (i.e., Git)
- Strong interpersonal communication and professional documentation skills
- Experience with sensor processing algorithms is an asset
- High level of professionalism and an ability to communicate technology know-how to external personnel
- An excellent command of written and spoken English
- Strong interpersonal, follow-up, and documentation skills

ABOUT NZ TECHNOLOGIES INC:

Established in 2009, NZ Technologies Inc. (NZTech) works in the field of Human Machine Interaction (HMI) with specializations in touchless sensors, machine vision & artificial intelligence, and embedded systems. NZTech's software and hardware is designed and built in-house at our office in Vancouver, BC. Our core product lines, TIPSO™ and HoverTap™ are based on proprietary technologies that have evolved from the technical expertise and unique industrial experience of our engineering team, with significant feedback from experienced advisors from the medical and other industrial sectors. The team won the 2020 BCTech Technology Impact Award for Company of the Year - Startup Success.

TIPSO™ is an award-winning family of products for surgeons who need to efficiently interact with radiology images in the Operating Room (OR). It is designed to fit seamlessly in their challenging work environment and NZTech is continuously working with clinicians to research, develop, and deploy new sensing technologies to aid doctors in their critical work. HoverTap™ is a new user interface technology that enables touchless controls over existing panels, LCD displays, and the like. Its practical design allows it to be retrofitted quickly and enables touch-free interactions with screens of all shapes and sizes. For example, HoverTap™ Lift and Swipe have been installed in elevators to enable a fully touchless elevator experience. Continually in development, HoverTap™ will soon be deployed in self-checkout kiosks, bedside medical displays, outdoor military displays, and digital picture frames.

Please submit **both your resume and cover letter** to naomi@nztech.ca with the job title as the subject of the email. A portfolio would be an asset. We will contact you if we see a good fit between the candidate and the position.