

**JOB OPPORTUNITY**

**POSITION:** Senior Firmware Designer  
**REPORTS TO:** Product Development Manager  
**LOCATION:** Ottawa, On

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Established in 1982, and now a business unit within Stanley Black & Decker, Inc., InstanTEL is the global market leader in the design and production of vibration monitoring instrumentation. Our products are used in over 120 countries. Applications include civil engineering, construction, environmental, mining, mining exploration, quarry, underwater, structural health, human annoyance, military and noise.

**Summary:**

- Design and development of innovative leading edge firmware for instrumentation and vibration monitoring products
- Designing applications utilizing current technologies to communicate with hardware devices via cellular modems, TCP/IP networking and the internet
- Designing intuitive user interfaces making use of current technologies in both the Windows and web environment
- Collaborate with the existing design team to drive innovation resulting in new products and enhancements of existing products
- Function as a lead on key projects assisting with planning, organizing, scheduling, managing and executing project development plans while meeting or exceeding milestone targets

**Requirements:**

- A university degree in Software Engineering or equivalent
- A minimum of 5 years of experience in designing and developing complex software
- Expertise in C, C++ and assembly programming within a real time operating system
- Strong understanding of various communication protocols including serial, USB, TCP/IP Ethernet, HTTP, XML and JSON
- Proven experience with digital signal processing including advance filtering techniques and working with BSP
- Experience and understanding of various advancements in IoT, interfacing with mobile devices and cloud systems
- Highly skilled with advanced mathematics for signal processing
- Exceptional analytical and problems solving skills to provide prompt resolution to unique and challenging situations
- Capable of committing to a time line and delivering on time
- Highly motivated, extremely creative and demonstrates accountability

- Outstanding judgement and leadership
- Clear concise oral and written communication skills
- Be a self-starter capable of both independent and team work

Interested candidates should forward their resume including a letter to [CanadaCareers@sbdinc.com](mailto:CanadaCareers@sbdinc.com)

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