



Empowerment Technologies Inc.
590 York Road, Unit 2.
Niagara-on-the-Lake, ON, Canada L0S 1J0
www.etinc.ca

Assistant Product Engineer – Co-op Toronto, ON

For over 20 years, we've been creating truly ground-breaking consumer electronics, one of which is the Oma Sense(tm) wearable baby monitor with our patented WakeUp(tm) algorithms that have a 4.4-star rating and saved babies' lives. Our Defender DIY video security solutions and Levana baby monitors have led to the peace of mind for millions of people in over 100 countries. We design and engineer our consumer tech products right here in Canada and work within our global supply chain to sell through retailers like BestBuy, Walmart, and Home Depot. As a team of entrepreneurial engineers and designers, we are driven to explore and create the best solutions possible that go beyond "good enough" to empower everyone in the world.

As our **Assistant Product Engineer – Co-op**, you will make sure our products are designed with the voice of the customer in mind so that we achieve exceptional customer satisfaction and 4.5-star ratings. You are a technically savvy team member that will bring an engineering approach to all phases of our Stage Gate product development process, especially by leading technical development and solving technical issues in real-time with partners in our global supply, as well as working with field trial users for feedback.

Responsibilities:

Product Development

- Assist with PCBA and firmware development, including schematic design, PCBA layout, firmware development and debugging of the system.
- Assist with algorithm and firmware development with RTOS and bare metal on embedded systems, preferably has experience with ST, NXP and TI MCU.
- Lead in design validation, including PCBA validation, testing and measurement, software testing and implementation, system integration, EMI analysis and prototype testing.
- Draft product development-related reports and assist in version control.

Product Testing and Quality Assurance

- Assist product testing, including competitor product testing, golden sample testing and product inspection
- Assist in drafting quality assurance standards and specifications, assist in drafting and documenting product testing report
- Assist in defective analysis, product break down and failure analysis

Product Management in New Product Introduction



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- Assist in product development projects from strategic planning to implementation while collaborating with other departments, maintaining scope, time, cost and quality initiatives
- Assist Beta trials, including planning and communication with internal teams, beta trial survey creation and results analysis
- Assist with developing product strategy documents, such as product business plans, function maps and competitive product analysis
- Research, analyze and implement new technology/components/products on the market, develop and recommend category/product objectives and strategies
- Write/maintain technical specifications, bill of materials (BOMs), instruction manual and other design/manufacturing materials.

Other

- Perform other duties as assigned by the Engineering Manager

Requirements:

- Enrolled in your final year of an Electrical and Computer Engineering, mechatronics, biomedical engineering, software engineering, system design engineering or computer science program.
- Previous engineering or co-op product management/embedded engineering experience
- Experience in a consumer electronics environment is an asset
- A knowledge of embedded hardware development, and/or firmware, APP development. Understanding of embedded systems, including ARM-Linux system, SoC and RTOS. Basic understanding of common communication protocols, including SPI, I2C, UART, etc.
- Proficiency in EDA software such as Altium, Mentor PADs, Cadence Allegro
- Proficiency in C/C++ and Python
- Must be able to handle lab equipment, such as oscilloscope, multimeter, signal generator, battery tester and power supplies.
- Excellent data analysis skills, especially using statistical models and best practices to derive unique technical insights
- Adept with leading in challenging situations with external parties; must be able to communicate extremely effectively and clearly with stakeholders in Canada and abroad
- Possesses a passion for consumer electronics and an entrepreneurial green-light mindset
- Ability to keep up with our results-driven and fast-paced growth culture
- Excellent written and verbal skills in English.
- Fluent in Mandarin considers an asset