

Do you have an extreme, obsessive, unwavering focus on customer experience? Do you thrive in a dynamic work atmosphere that strives for excellence on a daily basis? Are you motivated by innovative and forward-thinking ideas?

Then you've got what it takes to succeed at CWD.

### **Embedded Engineer**

We are currently looking for an inquisitive, curious, and improvement oriented **Embedded Engineer** to join our fast growth company working within the Research and Development team for the Baby (LEVANA) and Security (DEFENDER) product categories. The Embedded Engineer will contribute to the product development process and be a key player in changing the way people think about consumer electronics by developing the easiest to use, most stylish and best value products.

**The successful candidate will be responsible for:**

#### *New Product Development:*

- **Bill of Material Optimization:** Research components for next generation products (sensors, microcontrollers, NFC, BLE, displays, accelerometers, etc)
- **Prototyping:** Bread-boarding and prototyping of electro-mechanical systems
- **Circuit design:** Support product development by creating block diagrams, schematic entry, layout, and BOM management
- **Firmware/Software development:** Supporting firmware development on Cortex based micro-controller.
- **Testing:** Evaluation of prototype, pre-production and production designs to meet product requirements
- **Communication:** Interact with internal and external multidisciplinary teams to coordinate and achieve project objectives in a prompt manner

#### *Continuous Product Improvement*

- **Root Cause Analysis:** Analyze product returns to come up with solutions to improve products on future mass products
- **Version Control:** Monitor version control for software, firmware and document upkeep using a third-party software to ensure all changes and updates are tracked
- **Embedded Systems Testing:** Executing both hardware and software testing and validation. Implementing these hardware and software engineering changes to products that are currently in the market
- **Customer Satisfaction Analysis:** Continually monitor product reviews to update products according to customer issues and wants through online reviews, social media and customer support call drivers, returns and defect analysis
- **External Communication:** Communicate production issues, product issues, and customer feedback to business partners and collaborate on product improvements.
- **Internal Communication:** Update the company on product improvements monthly.
- Other duties as assigned

## **The successful candidate requires**

### **Education and Experience:**

- University Degree in Electronics Engineering, Electrical Engineering, Mechatronics Engineering, Computer Science, or a related field
- Embedded Engineering diploma would also be considered
- 2-4 years work experience in a similar position
- A minimum of 1-2 years experience working with consumer electronics

### **Technical Skills:**

- Understanding of common communications protocols (e.g. SPI, UART, I2C, USB), debugging practices (e.g. JTAG and associated gdb integrations), and basic electrical design principles
- Experience with electronics lab equipment (oscilloscopes, soldering iron, etc.)
- Familiar with PCB design (Altium) and circuit simulation tools (P-Spice)
- Software knowledge: C/C++, embedded software development and debugging on ARM platform
- Familiarity with wireless communication protocols (e.g. Bluetooth Classic, Bluetooth Low Energy, Wi-Fi, NFC).
- Experience in performance optimization (memory, speed, power).
- Experience with ultra-low-power systems
- Experience with real-time operating systems
- Experience with Accelerometer algorithm implementation a plus
- Experience in iOS or Android development a plus
- Advanced Microsoft Excel Skills

### **Cognitive Skills:**

- Flexible and creative in approach to problem solving
- Simplify: detangle issues to their core factors and focus on these
- Innovate down to the details
- Strive to create what's different Forward Thinking: Need to look beyond today and understand how things will change tomorrow in our business

### **Emotional Intelligence:**

- Self-awareness: strong desire to develop and improve yourself and knowing when to seek outside expertise and experience
- Motivation: remain self motivated while creating enthusiasm in others
- Empathy: understand and care about people's current reality
- Social skills: understand people, develop trust, and help them

If the above interests you, then apply to join a fast paced, creative, and energetic team!

**Candidates who reside within a 45 minute commute of our office will be given preference.**

**Please note: This is a 40 hour a week position based at our headquarters in Niagara Falls, ON. This position does not provide an option to work remotely.**

### **Vision**

We believe all people should be empowered.

### **Mission**

We create the highest performing consumer electronics that are smart, simple, and stylish.

### **Core Values**

**Development:** We value continuous learning that leads to positive change.

**Efficiency:** We are committed to new processes and techniques that improve results and create value.

**Innovation:** We embrace creativity, discovery, and a desire to Create What's Different.

**Accountability:** We honour our commitments through ownership and display integrity when delivering results.

**Excellence:** We challenge ourselves to add value that goes beyond what is expected.

### **About Us**

CWD designs, manufactures, markets and sells consumer electronics that enhance our lives.

As a pioneer in the markets of do-it-yourself video security, baby video monitors and wireless connectivity, we have successfully applied the principles of innovation and superior technology to a dynamic range of product categories. We are committed toward consistently exceeding consumer expectations and changing the way people think about:

- \* Baby Safety Devices
- \* Do-it-yourself Video Security
- \* Wireless Connectivity Products
- \* Home Theater Audio
- \* Retro Music Systems
- \* Clock Radios
- \* Karaoke Systems

From conception to launch, over 100 talented professionals work to ensure all of our products undergo the same intensive, completely in-house development and design process, resulting in the uncompromising quality and industry-leading performance that consumers trust.

The letters 'CWD' are shorthand for the empowering philosophy that drives every aspect of what we do – Create What's Different.

CWD is an equal opportunity employer committed to inclusive, barrier-free recruitment and selection processes and work environment. We will accommodate the needs of the applicants under the Ontario Human Rights Code and the Accessibility for Ontarians with Disabilities Act (AODA) throughout all stages of the recruitment and selection process. Please advise the Human Resources Department to ensure your accessibility needs are accommodated throughout this process. Information received relating to accommodation measures will be addressed confidentially.