



Electronics Hardware Position

Full-Time

Job Location: Surrey, BC, Canada

Start Date: Immediate

Who We Are

Kobelt Manufactures quality products that are built to last; that quality starts with our team. We are a company located in Surrey with over 50 years of experience developing and producing reliable products for the global marine and industrial sectors. To find out more about our company and our products, please visit our website at www.kobelt.com.

The Role

The Electronics hardware position works in the Engineering Department to support current product lines and New Product Development. Good oral and written communication skills are required. They will work closely with the software and electronics design team within the Engineering Department to develop new product prototypes, test jigs, and transitioning of prototypes into fully functional products for release.

The Electronics hardware position will work on our existing line of products and on the design, prototyping, and validation of electronics for new products and systems. They may occasionally work with Production to improve efficiency or add automated processes to enhance the quality and/or production time of products.

The ideal candidate will have a passion for engineering and product design as well as a desire to support internal sales staff, distributors and customers with respect to the proper application of the company's product line in real world situations. A desire and an aptitude for solving practical hands-on problems would be an asset.

Responsibilities

- Assist in creation, delivery and measurement of an engineering operational plan for the Electronics Product Line.
- To lead all electronic hardware design activities.
- Create product specifications and design documentation:
 - Work within Engineering to develop new production products
 - Work within Engineering to create/update design drawings and documents
 - Create written Work Instructions for production to utilize during new product production
 - Develop and execute test plans for hardware feature validation and testing
 - Execute new product test and document changes as required
- Confer with Management, Production, Quality, Sales and Marketing to discuss and plan project specifications and procedures





- Coordinate and direct electronics hardware projects, making detailed plans to accomplish goals and directing the integration of technical activities within the company.
- Analyze technology, resource needs, and market demand, to plan and assess the feasibility of projects.
- Support the development and implementation of engineering standard operating procedures (SOPs)
- Maintain standard drawing procedures and protocols.
- Review of existing Electronics product designs in the spirit of continuous improvement related to design, process, function and cost.
- Ensure regulatory and certification requirements are assessed and incorporated in product designs based on their intended use and considered when modifications are made.
- Participate as required in strategic business planning and development.
- Perform other duties as assigned by the Engineering Manager.

Minimum Qualifications

- In-progress Technologist Diploma/Engineering Degree a in Robotics, Systems Engineering, Electrical, Electronics or related discipline
- Experience writing and editing design documentation
- Experience with circuit design and analysis
- Experience with embedded ARM microcontrollers
- Experience reading datasheets and schematics
- Experience with printed circuit board layout
- Experience with communications protocols: SPI, I2C, CAN, UART
- Experience with oscilloscopes, multi-meters, and other test equipment
- Experience with GIT and/or SVN
- Ability to work with minimum supervision
- Ability to take initiative in a fast-paced and changing environment

Preferred Qualifications

- Experience with Altium Designer for Schematic Capture and PCB Layout
- Experience with LTSpice, or similar simulation environment
- Experience with ARM Cortex-M microcontrollers
- Experience with STM32 Series of microcontrollers
- Experience with embedded software application development
- Experience with mechanical integration of electronics hardware
- Experience with freeRTOS configuration and implementation
- Experience with product specification, design, and prototyping
- Experience with creation of datasheets and schematics

If you are interested in this position, please forward your resume (PDF) to our Hiring Manager at hr@kobelt.com. We look forward to speaking with you about this opportunity to join the Kobelt team.

