



Hardware / Electrical Engineer

Company Overview

Polaris Motion is an advanced technology company founded in 1994. We have clients all over the world and our headquarters is in Victoria B.C. This is where we conduct our research, product development, marketing, sales, final test and assembly.

Our market areas are ultra-fast laser manufacturing and ultra-precision optics. We develop unique, software and hardware technologies for advanced manufacturing. It is due to the talented staff of engineers, scientists and computer scientists that we're able to outperform the competition for success in many high-end machine design-ins.

Our company values include commitment, integrity, truth, and respect (**CITR**). We promote a culture that is innovative, creative, and competitive; one that fosters a climate of high team spirit, fun and accomplishment; and one that promotes personal growth and development. We strive to empower our employees to achieve their full potential.

We look forward to receiving your application. Please send your resume to careers@pmdi.com.

Job Summary

We're seeking an individual with electrical and electronics hardware design experience to join our company. The new team member will help expand and fulfill our product line. Work will include electronics hardware design, schematic capture and layout.

Responsibilities

- Hardware designs, schematic capture and layout
- Collaborate with a cross-functional technical team
- Create test procedures, and document technical work clearly
- Research new technologies and methods to improve the company's products and processes
- Communicate your developed works with internal and external customers
- Participate in peer review of designs; provide and receive critique in an effective manner
- Work effectively to deliver quality products in a fast-paced environment
- Manage multiple competing tasks
- Ability to accurately scope, estimate and schedule work on projects
- Make design decisions with minimal supervision
- Self-motivated and disciplined



Qualifications

- Bachelors or Masters Degree in Electrical, Computer Engineering or Equivalent
- Three years of experience

Required Skills

- Compact, multi-layer PCB design and layout
- Integrate FPGAs, processors, and high-speed peripherals
- Digital interfaces, analog and power supply circuits
- Microprocessors, high-speed busses, oscillators, serial communication protocols
- BJT and MOSFET circuits
- Test and measurement equipment
- Computer and networking hardware
- Trouble shooting of electrical and electronic circuits
- Repository and version control systems

Other Valued Experience

- Schematic Capture and Layout using Altium
- VHDL design, coding, simulation, synthesis and programming
- Programming C in the Linux environment
- ARM processor architecture, Zynq Ultrascale+, Xilinx and Altera FPGAs, GigE, PCIe
- Experience with motor control, PID tuning, motion control
- Knowledge or experience with feedback and PWM
- Soldering, reworking SMT and wiring

How to Apply

Please submit your resume and cover letter to careers@pmdi.com with subject line "Hardware / Electrical Engineer"

Other Info

Polaris Motion is in Victoria, B.C. on beautiful Vancouver Island. We offer a competitive salary and a comprehensive extended health package. If you are self motivated and enjoy working in a professional environment with a bright and talented team of product developers, you've found the right place. We'd love to hear from you.