

## **RemoteCon Careers | Halifax, Nova Scotia, Canada**

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### **Job Description**

# **Power Electronics Hardware Developer**

**Engineering · Full-time · In-person · Halifax, Nova Scotia**

### **About RemoteCon**

RemoteCon designs and manufactures advanced power electronics and embedded systems for demanding marine, industrial, and autonomous applications. Our next generation of products includes high-voltage battery systems, intelligent power distribution units, motor drives, DC/DC converters, battery management systems, and protection systems operating from hundreds to over a thousand volts.

### **The Role**

We are looking for a hands-on Power Electronics Hardware Developer to join our engineering team. You will design and develop next-generation high-voltage, high-power electronic products from concept through production, working on cutting-edge power conversion, energy storage, and motor control technologies.

### **What You'll Do**

- Design analog and digital power electronic circuits.
- Develop high-voltage and high-current hardware for battery systems, DC/DC converters, motor drives, and intelligent power distribution products.
- Perform circuit simulation, component selection, schematic capture, and PCB layout reviews.
- Design for manufacturability (DFM), testability (DFT), reliability, and EMC.
- Bring up, debug, and validate prototype hardware.
- Use oscilloscopes, differential probes, current probes, power analyzers, electronic loads, thermal cameras, and spectrum analyzers.
- Support product verification, compliance testing, and manufacturing.
- Prepare engineering documentation, test reports, and design documentation.
- Collaborate closely with firmware, mechanical, and manufacturing engineers.

### **What We're Looking For**

- Degree in Electrical Engineering or equivalent experience.
- Experience designing analog and power electronic circuits.
- Experience with schematic capture and PCB design.
- Understanding of switching power supplies and power conversion.
- Knowledge of MOSFETs, IGBTs, gate drivers, magnetics, current sensing, and protection circuits.
- Strong laboratory debugging skills.
- Experience using simulation tools such as LTspice, PLECS, or PSIM.
- Excellent technical documentation skills.

## **Nice to Have**

- Battery Management System (BMS) design.
- High-voltage systems (48–1200 VDC).
- Motor drive and inverter development.
- EMC/EMI design experience.
- Altium Designer.
- Embedded C or Python for hardware testing and automation.

## **Additional Information**

- Full-time, on-site position (no remote or hybrid work).
- Must be legally authorized to work in Canada.
- RemoteCon does not provide visa sponsorship or immigration assistance.

## **How to Apply**

Apply through our [Careers page](#) or email your CV and cover letter to [info@remotecon.ca](mailto:info@remotecon.ca) with 'Power Electronics Hardware Developer' in the subject line.