Job Description – **Firmware Engineer – Product Development**

At GRC, we make the datacenter more efficient and enable significant increase of power density per rack. GRC is hiring a Firmware Engineer to help develop and support our liquid immersion cooling systems for data center and Edge IT systems. As a Firmware Engineer at Green Revolution Cooling (GRC) you will be responsible for generating firmware requirements, develop embedded programs for PLCs, writing sequences of operations and development of human machine and machine to machine interfaces.

The ideal candidate would have a background in embedded control systems and degree in computer science or electrical engineering, experience in product development, strong written and oral communication skills. Candidate should have experience with Schneider M182 PLC, Schneider Electric SoMachine, various communications protocols and Web page development for embedded systems.

Key Responsibilities:

- Create Firmware Requirements Specification for embedded applications through collaboration with other engineers and product marketing
- Write detailed sequence of operation for use by technical writers in creation of user education material such as installation operation and maintenance manuals
- Maintain best practices for version control and proper firmware/software release documentation
- Develop application for embedded PLC platform using SoMachine
- Work with Test Engineering Team for verification and validation of new products and release of new versions of firmware
- Develop web based human interfaces and support machine to machine interface of various protocols
- Participates in release meetings with Operations, OEM, and Customer Experience Team
- Perform value engineering alone and in collaboration with other engineers, other departments, or customers
- Determine root cause and fault analysis

- Ensure design changes are documented and transmitted as required to internal and external resources
- Suggest/make changes to optimize and improve product features, quality, and cost

Job Requirements:

- Degree in Computer Science or Electrical Engineering or equivalent experience
- Minimum 3-5 years' experience
- Strong understanding of electro/mechanical systems and control theory, such as application of PID control loops for precise process control
- Experience with Schneider M182 PLCs and SoMachine
- Experience with CAN, SNMP, BACnet, Modbus RTU and Modbus TCP/IP
- Experience with JavaScript, Python, Java, and C++
- Experience with Linux OS and Exposure to RTOS
- Experience/Exposure to Cyber Security of IoT Devices
- Effective written and oral communication skills; the ability to interact professionally with diverse groups
- Competent in Microsoft SW suite: Excel, Outlook, PowerPoint, Word
- Team-oriented collaborative working style
- Ability to manage multiple projects and deadlines with attention to detail and follow up with minimal supervision
- Highly organized; self-starter
- Able to adapt to changing project priorities in a fast-paced startup environment
- Eager to learn and adapt quickly, comfortable with some ambiguity and a great sense of humor