

## **RISE™Robotics**

### **Position: Embedded Software Engineer**

RISE™Robotics is a technology company that has developed a completely new, fluid-free, electric alternative to hydraulic cylinders, RISE™Cylinder, for heavy equipment and machinery. RISE™Technology enables OEMs to deliver battery-electric products to their clients at diesel-hydraulic-equivalent or better performance, reliability, runtime, and cost. The key differentiator is RISE™Cylinder uses 65-90% less power than hydraulic cylinders.

### **Role**

RISE™Robotics is looking for a Software Engineer to develop application firmware and support/demo software in a variety of languages including C/C++ and Python. The perfect candidate will have strong self-starting tendencies, a willingness to engage in team-based planning and software development, and some experience deploying and supporting embedded software related to the control of electro-mechanical systems. You will join an exciting and growing team with a fantastic product, and enjoy the opportunity to help shape the way the team operates.

### **Responsibilities**

- Perform duties related to the design, manufacturing, control, test, and service of RISE™Cylinder and associated sensors, peripherals, control mechanisms, and tools
- Develop and document software modules in C and C++
- Develop tools for maintenance and debug of embedded systems related to the RISE™Cylinder product family, primarily in python
- Assist team in debug and troubleshooting of software
- Participate in Agile planning activities
- Develop tooling for data collection and analysis, primarily in C and python
- This position reports to the Director of Software

### **Required skills and experience**

- Minimum 3 years developing C/C++ applications and platforms for embedded systems
- Minimum 1 years developing tools and infrastructure using python
- Demonstrable numerical analysis skills and techniques
- Able to operate independently, producing robust and documented software modules
- Demonstrated experience using common embedded communications interfaces: CAN, SPI, I2C, UART
- Familiar with modern microcontroller systems, on at least ARM and one more family such as MIPS or PowerPC
- Ability to read and understand complex technical literature such as datasheets, schematics, production process diagrams

**Preferred skill and experience**

- Familiarity with concepts related to control systems, physics and motion planning
- Experience developing IoT communications systems using common services like MQTT on Wi-Fi, Bluetooth and cellular communications

**Benefits:**

- Health, dental, life, and disability insurance
- Blue Cross Blue Shield health insurance policy- RISE™ pays 70% of the premium
- Stock incentive plan
- Company outings
- Twenty days PTO and ten office holidays

RISE™ Robotics is an equal opportunity employer that values diversity at all levels. All individuals, regardless of personal characteristics, are encouraged to apply.