

RISE™ Robotics

Position: Senior 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 an experienced 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 a track record of 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
- Design and document software modules to be developed by other team members in C/C++
- Lead team in debug and troubleshooting
- Participate in planning activities using agile techniques
- Document software systems
- Assist hardware engineers in the scoping of projects and developing requirements
- Develop tooling for data collection and analysis, and platform debug
- Participate in review and documentation of safety-critical systems
- This position reports to the Director of Software

Requirements

- Minimum 5 years developing C/C++ applications and platforms in an electromechanical product environment
- Minimum 3 years developing tools and infrastructure using python
- Demonstrable numerical analysis skills and techniques
- Able to operate independently, producing robust and documented software modules
- Able to understand, manage, and improve embedded release processes
- Experience designing and interfacing with any of the following: motor control systems, battery management systems, wireless communications, automotive telematics
- 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 skills and experience

- Expert understanding of control systems
- Experience developing IoT communications systems using common services like MQTT on W-Fi, Bluetooth and cellular communications
- J1939 protocol experience
- Experience with ISO 26262, IEC 61508, DO-178C or other software safety standards

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.