

**Position:** Sr. Embedded Software Engineer

**Location:** Menomonee Falls, WI

**Position Overview:**

As an embedded software engineer at Columbus McKinnon, you will work together with engineers on New Product Development teams to design and implement technology solutions in our crane solutions group focusing on variable frequency drive development.

**Essential Duties and Responsibilities:**

- Analyze, design, and implement product SW solutions to fulfill design requirements
- Design and develop embedded software using C, C++, and Assembly languages
- Conduct unit test, integration test, and system test with project peers
- Design and implement code in a controlled workflow using JIRA, TFS/Visual Studio, and code reviews
- Up to 20% Travel time to other CMCO locations

**Knowledge, Skills, Competencies, and Abilities:**

- Demonstrated experience and ability to design, implement and test real time, embedded software solutions in industrial products
- Team player who is able to effectively build and maintain working relationships, demonstrate ability and willingness to cooperate and collaborate with others to achieve positive results.
- Independent problem solving and analysis skills
- Ability to meet critical deadlines, incorporating solid time-management skills

**Required Qualifications:**

- B.S. Degree in Electrical Engineering or Computer Engineering
- 7+ years experience with embedded C, C++, and assembly development
- Experience with low level communication interfaces
  - USB, RS232/RS422/RS485, SPI, I2C
- Working knowledge of electronic circuits and ability to read schematic diagrams
- Experience with test and debug tools, such as multimeters, oscilloscopes, and logic analyzers
- Experience with embedded file system preferred
- Experience with test/behavior driven development preferred
- Experience with VFD development for induction, PM, and DC systems preferred
- RTOS Experience preferred: freeRTOS, TI-RTOS

**About Columbus McKinnon:**

We design and make material handling products and solutions, but the most important part of our business is our people. We have been a hard working company for over 140 years – proud of our heritage, where we come from, and where we're going. As Columbus McKinnon grows, so does our need for driven and inspired employees. We are publicly traded and expanding globally – to new markets, geographies, and distribution channels. Join our winning team!

Columbus McKinnon Corporation promotes a diverse and inclusive workforce and is an Equal Opportunity Employer that does not discriminate against employees or applicants for employment on the basis of race, color, national origin, ancestry, age, religion, sex, gender, gender identity, gender expression, sexual orientation, physical or mental disability, medical condition, genetic information, military or veteran status, marital status, or any other Federal or State legally-protected classes. We also value the safety of all associates and work hard to maintain a Drug Free Workplace.