

**Job Title:** Senior Software Developer, Vibration

**Department:** Engineering

**Reports to:** Vice President of Engineering

**Summary:** Online Development Inc. is continually pushing the envelope in developing the next generation of industrial automation products and solutions. The nature of our business leads us to be nimble and entrepreneurial in our development.

As a Senior Software Developer, you will provide technical input into and implementation of the engineering life cycle of software or firmware (hereafter referred to as software) products including architecture, design, implementation, production release, and production support. You'll have a huge impact on our customers' expectations of robust, leading edge industrial products and services.

**Job Responsibilities:**

- Analyzes requirements to determine feasibility of product proposal.
- Works with product management to clarify and resolve project requirements.
- Architects software implementation with consideration of existing and future products.
- Develops and prototypes software.
- Simulates and tests design concepts to assure that design meets the product requirements. This may include computer simulations, proof of concept development, or prototype testing.
- Demonstrates expertise in a variety of the field's concepts, practices, and procedures to junior developers.
- May specialize on complex technical and business matters.
- Documents design to extent needed for proper review and maintenance of the code.
- Conducts research to produce design solutions, improvements, and new products.
- Performs analysis and modification of software.
- Troubleshoots and debugs code.
- In conjunction with the Test Team, plans and develops experimental test programs.
- Applies mathematical and engineering principles and methods used in the software development process.
- Analyzes test data and reports to determine if design meets functional and performance specifications.
- Handles release testing, and support on software projects.
- Coordinates activities with other software and hardware development team members.
- Contributes to complex aspects of a project.
- Work is highly independent.
- Maintains relationships with vendors.

**Qualifications:**

- Experience with secure development life-cycle (SDL) as defined in IEC 62443 standards is highly desired. Certifications to those standards are desired.
- Experience developing vibration analysis products is highly desired.
- ISO 18436-2 or higher certification and experience are highly desired.
- Experience using industry leading vibration data collection instruments is highly desired.
- Expert in C# and C++ development.
- Expert in object-oriented development.
- Experience developing web-based (cloud) applications is desired.
- Experience developing machine learning solutions is desired.

**Competencies:**

- Job Knowledge
- Verbal and Written Communication
- Interpersonal Relations
- Planning and Organization

**Education:**

- Bachelor's degree from four-year college or university; or equivalent related experience and/or training; or equivalent combination of education and experience.
- Typically requires 7+ years of related experience.
- Personal certifications to secure development life-cycle (SDL) standards such as IEC 62443 are highly desired.
- ISO 18436-2 or higher certification and experience are highly desired.