**Job Title:** Controls Software Engineer

**Location:** Wilsonville, OR

**Department:** Engineering

**Job Type:** Exempt

**DWFritz**

DWFritz Automation, founded in 1973, has experienced rapid growth over the last 5 years and continues to grow! Since its inception, DWFritz has been producing brilliant automation solutions for our clients. Today, the market demand for automation combined with our world-class practices and cutting-edge technology places DWFritz on a trajectory to becoming a leading provider in the field of automation.

One thing that hasn’t changed at DWFritz is our focus on our core values, such as “Collaborate and Share the Credit,” a value that is deeply engrained in how we work together both in our US and China facilities. Our core value “Find a Better Way” promotes innovation and openness to doing things differently. It’s also the reason we have a company supported incubator program and an in-house lab.

Our World Headquarters operates from a modern, state-of-the-art facility located in Wilsonville, Oregon. Our employees enjoy standing desks, a recreation room, a fitness room, and a hearty oatmeal breakfast to start each day. Our spacious lunch room is the venue for weekly All Staff meetings and our frequent “Lunch and Learns.”

DWFritz is a wonderful place to work, with unique opportunities to participate in dynamic teams, a strong sense of culture and values, and a growing company. If you are considering a new opportunity we encourage you to check us out.

**Your Engineering Team at DWFritz**

The Engineering team at DWFritz loves a challenge. In the face of large, complex obstacles, they develop the most interesting and brilliant solutions. They see obstacles as opportunities for learning, adaptation and innovation. The Engineering team was founded on collaboration and there is no shortage of team work, but unique to DWFritz are the opportunities to work autonomously on individual projects as well. Members of this team have diverse backgrounds, come from a variety of industries, and are eager to learn. Working with state of the art technology and world-class customers requires flexibility and communication to produce reliable, brilliant solutions.

**Your Challenge**

The Controls Software Engineer will be responsible for assisting in the development of software for custom automation and robotic systems. These systems include features such as:

* Real time PC control architecture.
* Sophisticated machine vision software.
* Sub-micron PID Servo motion control.
* 4 to 6-axis robot integration.
* High Level Custom GUI.
* 2D and 3D Laser Metrology.

**Your Responsibilities**

* Works with a team of other experienced and innovative engineers and technicians to develop first time, custom automated equipment.
* Works on projects from the analysis of a client’s needs through component selection, control software design, programming, debug, installation, final buy-off with customer, and follow-on warranty/upgrade support.
* Drives personal or company vehicle to customers’ facilities for project meetings, design reviews, start-up training, and follow-up review.

**Your Qualifications**

* C#.NET/C++ programming skills (min 4 years of experience).
* Proficient C#.NET GUI development skills.
* Experience with Version Control Software (GIT, VSS, Subversion, etc.).
* Experience with machine vision programming.
* Schematic reading experience a plus.
* Able to integrate into an existing software engineering team environment.
* Able to use existing standards, procedures, and practices.
* Excellent written and verbal communication skills.
* Attention to detail and accuracy.
* Ability to work under pressure to meet project deadlines in a multi-tasking environment.
* Sense of urgency to meet project schedules.
* Ability to maintain confidentiality.
* PC-based machine controls.
* Servo based motion control.
* Use Microsoft software – Word, Excel, Outlook, PowerPoint, Visio, etc.
* Must possess a valid driver’s license, acceptable driving record, and proof of current vehicle insurance.
* Requires domestic/international travel for installation and support. Typically 3, 3-week trips/year.
* Must be eligible for or have a valid passport.

**Your Education and Experience**

* BSEE or BSME.
* Minimum of 5 years recent automated machine controls experience (including hands-on debugging of real-time machine control software, electronics, and mechanical systems).
* 10 years additional experience will be considered in lieu of a degree.
* Experience in Robotic hardware/software systems integration.