**Job Title:** Sr. Vision Engineer

**Location:** Wilsonville, OR

**Department:** Engineering

**Job Type:** Regular

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**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 Sr. Vision Engineer is a challenging, high visibility position that will utilize your experience and skills and allow you to work with high-level automation technologies within a project team to develop cutting edge automation equipment. These systems include features such as:

* Custom Lighting & Optics.
* High resolution imaging systems.
* Multi-image Strobe in motion methodologies.
* Sophisticated machine vision software.
* 2D and 3D Laser Metrology.
* Sub-micron PID Servo motion control.
* 4 to 6-axis robot integration.

**Your Responsibilities**

1. Develop detailed vision design specifications for assigned projects.
2. Specify cameras, optics, and lighting for challenging vision applications.
3. Design custom optics and lighting for challenging vision applications.
4. Use vision software tools to develop test, and maintain complex vision applications.
5. Maintain state-of-the-art knowledge in vision design, testing techniques, and vision application development tools.
6. Provide design guidelines, and detailed vision design specifications to other engineers.
7. Assist in project schedule development.
8. Suggest new and innovative approaches to solving complex vision and inspection problems.
9. Help drive usage of new and advanced Vision and Inspection technologies.
10. Interface with customers during proposal development, reviews, buy-off, and installation phases.
11. Participate individually or as a team member to develop processes, procedures, and standards.
12. Drive personal or company vehicle to customers’ facilities for project meetings, design reviews, start-up training, and follow-up review.
13. Travel domestically /internationally for installation and support – approximately 10-20%.

**Your Qualifications**

* Excellent organizational, problem solving, and time management skills.
* Excellent Vision system applications skills (Cognex, Keyence, Halcon, OpenCV, Matrox).
* Vision system development skills (Camera, Lens and Lighting selection).
* Excellent C#.NET/C++ programming skills (min 8 years of experience).
* Excellent usage of Version Control Software (GIT, VSS, Subversion, etc.).
* Ability to develop user specific GUIs.
* Attention to detail and accuracy.
* Ability to work across organizational boundaries in a matrix organization.
* Ability to work under pressure to meet project deadlines in a multi-tasking environment.
* Ability to actively participate in team development and team-oriented processes and motivate others to do the same.
* Sense of urgency to meet project schedules.
* Ability to maintain confidentiality.
* 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.
* Must be eligible for or have a valid passport.

**Your Education and Experience**

* BSEE, BSME, or BSCS with recent and extensive manufacturing machine vision system design experience.
* 10+ years’ experience designing Machine Vision Systems (including image analysis methodology).
* 8+ years’ experience developing software using VB.NET, C#.NET, or C++.NET.
* Cognex VisionPro and Keyence Vision Editor Skills a plus.
* BSEE or BSCS with recent manufacturing programming experience.
* Experience with Machine Control, VB.net, C#.net, or C++.net.