**Job Title:** Applications Intern  
**Location:** Wilsonville, OR  
**Department:** Engineering  
**Job Type:** Internship  
**Hours:** 20-30 per week

**DWFritz**

Since its inception, DWFritz Automation has been producing brilliant automation solutions for our clients. Four decades later, the market demand for automation combined with our world-class practices and cutting-edge technology has made DWFritz a leading provider in the field of automation.

One thing that hasn’t changed at DWFritz is our focus on our core values, which define how we collaborate across our U.S. and China facilities and how we promote innovation and openness to deliver solutions we can be proud of.

Our continued mission is to be a Great Place to Work, with structured activities to interact across teams, develop your skills, make an impact, and celebrate wins! If you are considering a new opportunity, we encourage you to check us out.

**Your Challenge**

The Applications Intern is to assist the Vision, Applications, and Software Engineers on high volume vision inspection projects using both Deep Learning technology as well as traditional rules based dimensional inspection. Works with industrial PCs, PLCs, robots, servo controllers, motors, sensors, and pneumatics in an industrial automation environment. Machines perform various process or inspection functions.

**Your Responsibilities**

As an Applications Intern, you will utilize the machine vision, C#, machine learning (deep learning), and neural networks skills from your studies to capture and mark-up images for defect training and classification for multiple DWFritz customers. This internship will provide opportunities to partner with Sr. Vision and Applications Engineers to further your expertise of machine vision and machine learning via Cognex ViDi.

- Works with team of engineers and technicians in the adjustment, setup, and debug of custom vision systems.
- Sets or adjusts mechanical, pneumatic, electrical, and software parameters for various sensors, lights, and cameras to achieve acceptable machine performance.
- Tests alternative techniques and methods; recommends change in procedures or equipment as necessary.
- Provides general assistance in the installation and repair of machinery.

**Your Qualifications**

- Ability to accurately follow established work instructions and procedures.
- Strong understanding of PCs, including familiarity with Word and Excel.
• Basic understanding of industrial control systems, especially servo motion and robotics.
• Ability to interpret mechanical, electrical and pneumatic drawings, diagrams, and schematics.
• Skilled in the use of basic hand tools, especially wrenches, screwdrivers, pliers, and cutting tools.
• Knowledge of basic electrical troubleshooting; including use of a digital multimeter.
• Good written and verbal communication skills in English. Good documentation skills.
• Ability to work both in a team environment and also independently.

Your Education and Experience

• Undergraduate or graduate level students.
• Experience with PC hardware and software and Windows 7 or Windows 10 in an office/lab setting.
• Experience programming a plus.

Equal Opportunity Statement

DWFritz is an equal opportunity employer. In accordance with applicable law, the company prohibits discrimination based on race, color, religion, creed, gender, pregnancy or related medical conditions, age, national origin or ancestry, physical or mental disability, sexual orientation, genetic information, uniformed service or any other consideration protected by federal state and local laws. Our commitment to equal opportunity employment applies to all persons involved in our operations and prohibits unlawful discrimination by any employee.

Sponsorship

DWFritz is not currently sponsoring work visas for this role. Authorization to work in the U.S. is required to be considered.