

EVAN OLSON

Software Engineer & Problem Solver

@ evan-ols@protonmail.com 📍 NY 🌐 e-o.dev

EXPERIENCE

Software Development Technical Lead (Metrology)

Corning Inc

📅 August 2019 – Present 📍 Corning, NY

- Currently leading and managing Corning IOX Metrology Software Engineering Team with 5 direct reports.
- Led the complete redesign/rewrite of the all existing Metrology Software from .Net 4.6.1 to .netcore 3.1 WPF MVVM.
- Developed, integrated, and deployed a dynamic Machine Vision algorithm critical to production stress measurements.
- Designed, built, and deployed a Machine Vision Scratch Analysis algorithm.
- Spearheaded the effort to create the next generation of Gorilla Glass Post Ion-Exchange Metrology (hardware & software).
- Led the training, setup, and optimization for production stress measurement instruments.
- Facilitated the deployment of Gitlab CI/CD to further improve my teams productivity.

Software Engineer II

Corning, Inc

📅 June 2018 – Aug 2019 📍 Corning, NY

- Worked with optical physicists to research and develop software to measure deep stress on chemically strengthened transparent substrates.
- Built a Gitlab server and migrated existing SVN repos.
- Revamped rapid prototyping introducing FDM 3D printers to our labs, improving redesign turnaround time.
- Designed and 3D modeled critical parts for experimental stress measurement hardware.

PROFICIENCIES

Currently Using

C#, WPF, MVVM, .netcore, .Net 4-6, EMGUCv (opencv)
HTML, CSS, Javascript, Bootstrap

Experience With

Python, TensorFlow, C, C++
Flutter, Java, Kotlin, Objective C
Linux Administration, CI/CD, DevOps, Arduino

Learning

Django, microPython, ESP32

EDUCATION

B.S. in Computer Science

SUNY Empire State

📅 2015 - 2017

Computer Science

SUNY University at Buffalo

📅 2014 - 2015

KEY PROJECTS

Promoted to Software Engineering Team Lead 1 year after starting

- Took on learning and understanding a broad range of topics necessary to effectively create and develop post Ion Exchange Glass Metrology
- Promoted to Metrology Development Lead after taking charge of the ISM measurement system software development.

Critical Support of Gorilla Glass Development

- Metrology is a critical portion of selling cover glass. Without enterprise grade metrology software, the sale of Gorilla Glass products is not possible.
- Responsible for a software deployment that currently measures 5-10 thousand parts per day, per instrument when manufacturing.

Complete revamp of all Software Development Processes

- Took on the complete redesign and updating of software development practices within metrology development. This included migration from SVN to Git/Gitlab for issue tracking, project management and CI/CD.
- Complete rewrite of existing software into new .netcore WPF MVVM applications

DireByte Software

- During the pandemic, I co-founded a software development group that creates collective side projects in our spare time. www.direbyte.com

PUBLICATIONS

📄 Patents

- Andrews, r. c., bouzi, p. m., furnas, w. j., jacobson, j. r., newcomer, g. a., **Olson, E. I.**, ... wetmore, n. d. (2021). u.s. patent no. 11,105,612. washington, dc: U.s. patent and trademark office. (n.d.).

A.A.S. in High Performance Computing

Corning Community College

📅 2011 - 2014

A.S. in Computer Science

Corning Community College

📅 2011 - 2014