

Luke Schwaller

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About Me

- Programming:** C/C++, Python, Javascript, HTML/CSS, MATLAB, MySQL, Unix/Linux, Windows, Anaconda, \LaTeX
- CAD Skills:** Siemens NX, Solidworks, Autodesk Fusion, Autodesk Inventor, Cura, Ansys, HyperMesh, Team Center, SAP ECTR
- DevOps** Docker, Jenkins, Kubernetes, Hashicorp Vault, JFrog Artifactory, AWS, Bitbucket, JIRA, Git
- Interests:** Music Production, 3D Printing, Arduino Projects, Video Production, Astronomy, Astrophotography, Data Science

Work Experience

Molex

Lisle, IL

SOFTWARE ENGINEER

Jan. 2021 - Present

- Generated CI/CD pipelines using Jenkins, Vault Secrets, and Jfrog Artifactory to create an easy to access software deployment portal for the user base.
- Designed GUI with direct input from customer to create a workflow that best matches the customers' needs using PyQt5.
- Collaborated with global team to establish standards around CI/CD practices.
- Lead knowledge shares to provide unique perspectives and disciplinary knowledge to global team.
- Participated in code reviews to ensure that final product delivered to clients was of the highest quality.

Molex

Lincoln, NE

DESIGN ENGINEER

Jul. 2020 - Jan. 2021

- Developed customer CAD models and drawings to ensure product compliance, while protecting company IP.
- Designed testing techniques to allow development of specifications for products.
- Worked with manufacturing teams to solve design challenges around injection molding and plastics.
- Guided product through late stages of product life cycle, including decommissioning documentation and alerting production teams
- Provided engineering support to QA teams to ensure product and process compliance with EPA regulations.

Molex

Lisle, IL

MECHANICAL DESIGN CO-OP

Jan. 2019 - Jul. 2020

- Using NumPy, Pandas and Plotly libraries created professional graphics to communicate technical data with non-technical team members.
- Worked with manufacturing specialist to ensure product maintained excellency in manufacturing.
- Created user friendly GUIs to optimize workflow for data processing using the PyQt5 package.
- Lead design of mechanical test fixture for \$200 million dollar contract with major client.
- Collaborated with a small team to develop and pitch an innovative new product for an inter-company

DestinationXL

St. Charles, IL

KEYHOLDER

Nov. 2015 - Dec. 2019

- Engaged with clients on personal levels to ensure customer satisfaction and continued relations.
- Held responsibility for store operations often alone or with one other making sure to complete a variety of challenging tasks to ensure a safe workplace environment.
- Assisted in the creation and execution of a target revenue plan to ensure our store reached \$ 1 Million per year in gross revenue.

Education

Northern Illinois University

Dekalb, IL

B.S. IN SCIENCE (MECHANICAL ENGINEERING)

2017 - 2020

- Dean's List x6
- 3.50/4.0 GPA
- Designed dark matter detector and enclosure for Fermi National Laboratory for a senior design project
- Lead a team in the development of a mechanical walker for exploration of rough terrain.

Projects

Senior Design: Dark Matter Detector with FermiLab

Batavia, IL

NORTHERN ILLINOIS UNIVERSITY

Aug. 2019 - May 2020

- Designed a high purity copper enclosure to shield delicate sensor from RF signals.
- Developed new methods to feed calibration tools into enclosure, while maintaining high packing density of detectors
- Created custom PCBs to position detector and pass signal along using flexible PCB technology
- Participated in tribunal style review of project to ensure design quality before production