

Portland, OR

COLLIN CONWAY

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VERSATILE SOFTWARE ENGINEER WITH 5 YEARS OF EXPERIENCE RELOCATING TO NEW ENGLAND

EMPLOYMENT

Sr. SW Engineer *MLCC Product Engineering* *MKS | ESI* *Portland, OR* *3/22 - 6/23*

- Owned architectural change to main processing application by merging multiple applications into one
 - Key customer went from having to restart computer daily to being able to run for weeks
 - Improved developer productivity by implementing a declarative, extensible, messaging API
 - Project to double measurement output was able to meet MTTF requirements after this change
- In 1 year wrote 560 unit tests, and increased code coverage by 6.5%, in large C# codebase
- Recovered Azure Devops infrastructure for multiple product families after ransomware attack
- Performed modeling, data mining, & visualization w/ Python on interdisciplinary tiger teams
- Developed "Easy Button" automation, transforming a high touch 4 hour SW upgrade into a few clicks
- Presented and gave feedback in design reviews for high value system features
- Trained engineers on software testing and system operation

SW Engineer II *MLCC Product Engineering* *MKS | ESI* *Portland, OR* *5/19 - 3/22*

- Implemented service to detect faulty peripherals causing OS timer corruption at large customer site
- Developed custom SQL log viewer and trained users on data mining
- Automated 14 hours of oscilloscope performance testing of 100+ processes to 1 click
- Developed modular simulation of manufacturing software for HALT testing of new subsystems

SW Engineer I *Laser Trim SW Engineering* *ESI* *Portland, OR* *6/18 - 5/19*

- Developed Computer Vision fitting algorithm with 5 μ m positioning accuracy of custom probe cards
- Created real time PID oscillation detection, reporting & shutoff feature in for Galil DMC controller
- Developed regression test plan for SEMI Laser Trim & Test system

SW Lead *Trickfire Robotics* *University of Washington* *Bothell, WA* *5/17 - 4/18*

- Primary designer and implementer of robotics software for NASA Robotic Mining Competition entry
- Developed autonomous navigation system w/ C++, ROS Navigation Stack, and depth camera data
- Implemented differential drive PID control system with ROS control stack and Arduino

EDUCATION

B.S. in Computer Science and SW Eng. *University of Washington* *Bothell, WA* *9/14 - 5/18*
Cum Laude, In-major GPA: 3.94

PROJECTS

Portfolio Website: React, Rust, WASM

collin-codes.azurewebsites.net

Moustache Maker: Python, Flask, OpenCV

TECHNICAL EXPERIENCE

Languages: C#, Python, PowerShell, C++

Technologies: Git, Azure Devops, Ranorex, Pandas, SQL, WinForms, OpenCV, Cognex, ROS, Flask, Galil