

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.
 - Developer productivity improved with my no code xml API to add new messages and types.
 - 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.
- Did modeling, data mining, & visualization w/ Python on interdisciplinary investigation teams.
- Developed "Easy Button" automation for transforming a high touch 4 hour SW upgrade into a few clicks.
- Presented and gave feedback for design reviews for high value system features.
- Clarified requirements and provided system expertise for large interdisciplinary team.

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.
- Added query features and trained users to mine useful data from customer manufacturing logs.
- Automated 14 hours of repeated 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, WPF, Numpy, WinForms, OpenCV, Cognex, ROS, Flask, Galil