

Portland, OR

COLLIN CONWAY

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SEASONED SOFTWARE ENGINEER, DATA HOUND AND BUG HUNTER 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 processes into one.
 - Implemented compile time C#/C++ interop message passing system with no code xml API.
 - Optimized OS Resource allocation for timing stability for soft real time capacitor test system.
 - Key customer went from having to restart computer daily to being able to run for weeks.
 - Project to double measurement output was able to meet MTTF requirements with this change.
- In 1 year wrote 560-unit tests, and increased code coverage by 6.5%, in large established codebase.
- Recovered devops infrastructure for multiple product families after ransomware attack.
- Did modeling, data mining, & visualization w/ Python on interdisciplinary investigation/scoping teams.
- Developed onboard automation in C# transforming a high touch 4 hour SW upgrade into a few clicks.
- Presented and gave feedback for design reviews of innovative, high value system features.
- Clarified requirements and provided system software 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.
 - Received Principles in Action Award for customer acceptance at large SEMI fab.
- 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* *2/16 - 5/18*
Cum Laude, In-major GPA: 3.94

Engineering Prerequisites *North Seattle College* *Seattle, WA* *9/14 - 2/16*
Laura G. Scudder Scholarship, DHL Scholarship

Associate of the Arts *North Seattle College* *Seattle, WA* *9/09 - 5/11*
Running Start early degree program

TECHNICAL EXPERIENCE

Portfolio Website: React, Rust, WASM

collin-codes.azurewebsites.net

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

Technologies: Git, Azure Devops, Ranorex, WPF, Numpy, WinForms, OpenCV, Cognex, ROS, Flask, Galil