

Education

Sept '15 – Aug '17 **Bachelor of Science, Mechanical Engineering**, *Seattle University*, Seattle, WA

Experience

- May '18 – Present **Embedded Lead Engineer**, *Kenworth division of PACCAR Inc.*, Renton, WA
- Promoted from Embedded Software Engineer to Embedded Lead Engineer
 - Manage development of digital instrument cluster to ensure global alignment between requirement definition, software development, and software validation teams
 - Ensure complete design development by facilitating concept and technical design reviews
 - Report project progress to senior management on a weekly basis
 - Implement scaled agile development procedures for task management and project tracking using IBM Rational Team Concert
- Aug '17 – May '18 **Embedded Software Engineer**, *Kenworth division of PACCAR Inc.*, Renton, WA
- Resolved all critical power-train control defects prior to launch of main vehicle ECU
 - Performed defect verification and unit testing in order to provide direct feedback to fellow application software team members
 - Deployed Jenkins-scheduled Python script to validate healthy signal interface between application and supplier firmware
 - Saved \$2K cost per developer by creating on-target CAN debugging tool to eliminate the need for third party applications
 - Developed embedded software models using Matlab/Simulink for next generation vehicle electronic control units
 - Designed and maintained Python scripts to facilitate automated build processes, continuous integration, and development reporting
- Jun '16 – Aug '17 **On-Board Diagnostics Engineering Intern**, *PACCAR Technical Center*, Mt. Vernon, WA
- Calibrated exhaust gas re-circulation response diagnostics for heavy-duty engines
 - Implemented optimization methods for diagnostic threshold calibration
 - Wrote Matlab scripts to automate and improve engine test cycle generation
- Sep '16 – Jun '17 **Autonomous Tractor Trailer Coupling System**, *Kenworth R&D*, Renton, WA
- Developed autonomous system capable of coupling semi-truck to trailer
 - Programmed multithreaded C++ application to control vehicle via CAN bus
 - Manufactured functional prototype to demonstrate system performance

Technical Skills

Programming Matlab, Simulink, Python 3, C++, Git, SVN, CAPL Scripting, \LaTeX , Jenkins
Engineering Solidworks, ATI Vision, Vector CANalyzer, Vector CANoe, Enterprise Architect

Languages

German **Intermediate**

Studied abroad at Kreuzgasse Gymnasium Cologne, Germany

Interests

Auto Racing Team captain leading team to build and compete in local endurance races
SCUBA diving Certified advanced open water diver

Seattle, WA

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