

S. Trivett

3A Mechanical Engineering
University of Waterloo
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skills

Technical

- hands-on making/tinkering
- design for manufacturing
- drafting and GD&T
- automation design
- statistics

Digital

- NX8, Solidworks, Inventor, ANSYS
- JMP, MATLAB, Excel, LabVIEW
- Adobe: ID, Illustrator
- code: C++, python
- OSX, Windows

experience

Apple iPhone SQE

01/15 - 05/15

- formulated and actualized critical sensor correction methods for custom metrology
- developed and managed qualifying high volume automated inspection technology
- evolved custom sensors and test fixtures for new inspection applications
- devised/executed/analyzed DOE's for complex sensor and automation troubleshoot

Bend All Automotive R&D Engineering

09/13 - 08/14

- designed, prototyped, and validated novel hose-to-tube crimp for automotive fluid handling applications (automatic transmission fluid transfer lines)
- invented new processes and tooling for cold formed tube expansion; 40% diameter increase on 1" length of 3/8" 3k aluminum alloy tube
- contrived and qualified two complex hydraulic test stands for pressure and flow testing large production volume automotive transmission and engine components

IKO Industries Operations Engineering

01/13 - 05/14

- created custom paint mixer and dryer washout system and schedule
- designed and fabricated wear profiler instrument for cone rock crusher liner
- implemented a database and reporting system for rock crusher liner PM

academics

University of Waterloo Mechanical Engineering

09/12 - 05/17

- President's Scholarship with Distinction
- Dean's Honour List 2014

side projects

- **competitive road cycling:** sourcing parts, building bikes, training, and racing
- **Midnight Sun solar car:** designed wheel, brake, rollcage, mechanical manager S'14
- **eyeware design:** leading CAD and actualization of project with classmate
- **hobby electronics:** building arduino/RC models, tinkering and fixing
- **automotive (volkswagens):** Mk6 Golf TDI 6MT