

SAMANTHA VALENTEEN

SOFTWARE ENGINEER

CONTACT

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EDUCATION

University of Colorado

Boulder, CO | 2012 - 2017

BA, Astrophysics
Minor, Mathematics
Graduated *summa cum laude*

SKILLS

Python
LabVIEW
LabVIEW RT
SQL
LaTeX
TIA Portal
WinCC OA
Arduino
Industrial Networking

INTERESTS

Clean Energy
Reforestation
Cosmology
Kayaking
Aerial Yoga
Juggling
Fantasy Novels

EXPERIENCE

Software and Systems Engineer | DMC

Seattle, WA | March 2018 - November 2019

- Developed custom software applications for clients seeking test engineering and automation solutions in a diverse set of industries.
- Developed applications to run on real time systems.
- Configured remote devices and communication protocols to provide intersystem coordination with software applications.
- Worked on all phases of projects including sales, architecture design, implementation, code review, system testing and troubleshooting, and post project support.
- Managed day-to-day client communication and project budget/schedule tracking.

Project Researcher | ATLAS Institute

Boulder, CO | August 2017 - February 2018

- Designed and prototyped IoT air quality and foot traffic sensors to be distributed across the University of Colorado campus.
- Worked with a backend team to establish communications between all devices and server.

Research Assistant | Center for Experimental Nuclear Physics and Astrophysics

Seattle, WA | June 2016 - August 2016

- Worked as part of the Axion Dark Matter eXperiment research group.
- Programed microcontrollers to perform auxiliary functions on prototype axion haloscope.
- Helped successfully bring the project to the data-taking stage.

Research Assistant | Center for Astrophysics and Space Astronomy

Boulder, CO | January 2015 - August 2016

- Collaborated with Dr. Jeremy Darling on a project searching for astrophysical Raman spectra.
- Performed data reduction and analysis of radio spectra using IDL and Python.
- Wrote and defended an honors thesis on the topic.