

SAMANTHA VALENTEEN

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Education

University of Colorado

Boulder, CO | 2012 - 2017

BA, Astrophysics

Minor, Mathematics

Graduated *summa cum laude*

Professional 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.
- Developed ability to quickly learn new technologies.
- 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 Astrophysics and Space Astronomy

Boulder, CO | January 2017 - May 2017

- Worked as assistant to Dr. James Green to prepare cleanroom environments for instruments intended to fly on sounding rockets.
- Gained functional familiarity with vacuum systems.

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.
- Programmed 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.

Other Positions and Employment

Teaching Assistant | CU Science Discovery

Boulder, CO | June 2014 - August 2014

Assisted in lesson creation and instruction for science classes aimed at children from elementary to high school.

Certification and Licensure

Certified LabVIEW Associate Developer

May, 2018 - May, 2020

Memberships and Activities

Member| Sunrise Movement

Seattle, WA | 2020-present

Assisted in fundraising activities for climate change action group.

Treasurer | CU Astronomy Club

Boulder, CO | 2015-2016

Acquired annual funding for the club and worked with internal committee heads to effectively distribute and manage funds.