

Samantha Anne Valenteen

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Education

University of Colorado

August 2012 - May 2017, Boulder, CO

Graduated Summa Cum Laude

B.A., Astrophysical and Planetary Sciences, with emphasis in Astrophysics

Minor, Mathematics

Professional Experience

DMC / Systems and Software Engineer

March 2018 - November 2019, Seattle, WA

Developed custom software solutions to provide automation for clients in industries including test and measurement, industrial automation, and internal company needs.

Configured remote devices and communication protocols to provide intersystem coordination with software applications.

Worked on all phases of projects including sales, architecture design, implementation, system testing and troubleshooting, and post project support.

Worked on projects independently and as part of a team.

Developed ability to quickly pick up new technologies.

ATLAS Institute / Project Researcher

August 2017 - February 2018, Boulder, CO

Designed and prototyped IoT air quality and foot traffic sensors to be distributed across the University of Colorado campus.

Worked with back-end team to establish communications between all devices and central server.

Center for Astrophysics and Space Astronomy / Research Assistant

January 2017 - May 2017, Boulder, CO

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.

Center for Experimental Nuclear Physics and Astrophysics / Research Assistant

Summer 2016, Seattle, WA

Worked with the Axion Dark Matter eXperiment group.

Made and installed electronic components for prototype axion haloscope.

Helped bring the project to the data-taking stage.

Center for Astrophysics and Space Astronomy / Research Assistant

January 2015 - August 2016, Boulder, CO

Worked as assistant to Dr. Jeremy Darling on project concerning astrophysical Raman spectroscopy.

Performed data reduction and analysis of radio spectra using IDL and Python.

Wrote and defended honors thesis on the topic.

Other Positions and Employment

CU Science Discovery / Teaching Assistant

Summer 2014, Boulder, CO

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

CU Astronomy Club / Treasurer

2015-2016, Boulder, CO

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