

EDUCATION

- **Utah State University** Logan, UT
Computational Mathematics Major; GPA: 3.87 *Aug. 2015 – Current (Graduating Fall 2018)*
- **Cuesta College** San Luis Obispo, CA
Three semesters to transfer; GPA: 3.95 *Jan. 2014 – May. 2015*

EXPERIENCE

- **Atomic Jolt** Logan, UT
Software Developer *June 2018 - Present*
 - **Learnosity Connector:** Contributed to the Learnosity Connector project which enables teachers to author course content in Canvas via the popular Learnosity service.
- **USU Power Electronics Laboratory** Logan, UT
Software Engineer / Research Assistant *Jan 2016 - Jun 2018*
 - **Square One - Altium Library Management System:** Created a system using Node+Express for mass-submitting tickets for new parts to be added to our in-house Altium Database and verified by librarians.
 - **CAN Data Graphing Utility:** Created an HTML5 asynchronous web-app for generating and sharing graphs of terabytes of data accrued in the AMPED battery life extension project.
 - **Graphic Design:** Designed all the banners and window decals around our facilities in Logan, UT. Utilized a unified color palette for all the facets of our organization.
- **USU GASLab** Logan, UT
Volunteer Software Engineer *Apr 2017 - Present*
 - **Cubium Software Project:** A volunteer of the Get-Away-Special small-satellite program at Utah State University. Develops open source subscription-based plug and play software for small satellite application as well as new hardware that will empower individuals to deploy experiments on a budget.
- **West Coast Astronomical Society** Santa Margarita, CA
Head of Mechatronics *Jun 2014 - Jan 2015*
 - **Telescope Automation:** Took charge of automating the hardware of a Meade 10" telescope to more accurately detect the positions of binary star systems.
- **Cuesta College** San Luis Obispo, CA
Tutor *Aug. 2014 – May. 2015*
 - **Math / Physics Tutor:** Tutored all levels of mathematics. Teachers frequently sent students to me so that I could explain new concepts to them.

ACHIEVEMENTS

- **USU Hackathon (2017):** Took first place again at the Utah State University intercollegiate hackathon as a member of a team that created a Shakespearean Sonnet generator using natural language processing.
- **USU Deans List (2017):** Current member of the Dean's List at Utah State University.
- **USU Hackathon (2016):** Took first place at the Utah State University intercollegiate hackathon for my solo development work on a procedurally generated terrain-based music visualizer entitled "Acoustic Forest".
- **Cuesta College FBSA (2015):** Awarded the Frank Brown Science Award for outstanding academic achievement.

PROJECTS

- **8 Bit Spaghetti:** Designed and built 8-bit processor using TTL. Helped many students around the world build versions of the design.
- **Dream Cloak LED Display:** Designed and built a 15x30 24-bit wearable RGB LED display and a web app to control it wirelessly, all in five days.
- **Euler Golf:** Created an HTML5 game based on a problem conceived involving recursive movement over the Gaussian Integers.

PROGRAMMING SKILLS

- **Languages:** JS, C++, Python, Bash, Java, PHP, Haskell, LaTeX **Technologies:** Node.js, Express, jQuery, Babel