

## EDUCATION

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

## EXPERIENCE

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- **USU Power Electronics Laboratory** Logan, UT  
*Software Engineer / Research Assistant* *Jan 2016 - Present*
  - **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. This system integrates with OctoPart and supports auto-filling of data and will support automated price-minimizing order-form generation.
  - **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.
  - **Web Development:** Created the first revision of the SELECT website, which utilized a responsive single-page design and aesthetic harmony of data presented therein.
- **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 streamline the process of speckle interferometry and more accurately detect the positions of binary star systems. Implemented new affordable tech that will enable more people to observe countless 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

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- **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".
- **USU Deans List (2017):** Current member of the Dean's List at Utah State University.
- **Cuesta College FBSA (2015):** Awarded the Frank Brown Science Award for outstanding academic achievement.

## PROJECTS

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- **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

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