Kyle Hovey

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## **EDUCATION**

**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

# USU Power Electronics Laboratory

Logan, UT

Software Engineer / Research Assistant

Jan 2016 - Present

- CAN Data Graphing Utility: As a part of the AMPED project (geared towards extending battery life with smarter cycling) we accrued Terabytes of sensor data that needed to be visualized. I created a HTML5 asynchronous web-app for generating and sharing graphs of this data.
- o Square One Altium Library Management System: I created a system 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 support auto-filling of data and will support BOM upload and automated price-minimizing order-form generation.
- Graphic Design: I designed all the banners and window decals around our facilities in Logan, UT. In the process, I utilize a unified color palette for all the facets of our organization.
- Web Development: I created the first revision of the SELECT website, which utilized a responsive single-page design and aesthetic harmony of data presented therein. The current website is not my doing, however.

USU GASLab Logan, UT

Software Engineer

Apr 2017 - Present

• Cubium Software Project: I am in the software team of the Get-Away-Special small-satellite program at Utah State University. We continue to develop open source subscription-based plug and play software for small satellite application as well as develop 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: I was in charge of automating the hardware of a Meade 10" telescope with the intention of streamlining the process of speckle interferometry to more accurately detect the positions of binary star systems. I 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

o Math / Physics Tutor: At Cuesta College I tutored all levels of mathematics and frequently had teachers send students to me so that I could explain new concepts.

# ACHIEVEMENTS

- USU Hackathon 1st Place: I 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 Dean's List: I am a current member of the Dean's List at Utah State University.
- Cuesta College FBSA: I was awarded the Frank Brown Science Award for outstanding academic achievement.

# Projects

- 8 Bit Spaghetti: 8-bit processor that I designed and built using TTL. I have now helped many students around the world build versions of my design.
- Dream Cloak LED Display: In five days I designed and built a 15x30 24-bit wearable RGB LED display and a web app to control it wirelessly.
- Euler Golf: HTML5 game based on a problem I conceived involving recursive movement over the Gaussian Integers.
- CALSim: In-browser WireWorld cellular automaton interpreter with built in key-commands.

## Programming Skills

• Languages: JS, C++, Python, Bash, Java, PHP, LaTeX

Technologies: ¡Query, lodash, Node.is, Vim