

## Education

### **University of Colorado at Boulder**

Graduating May 2016

- Electrical and Computer Engineering Major with Computer Science Minor
- **Cumulative GPA:** 3.018

## Engineering Experience

### **Idea Forge:** Inaugural Lab Assistant

Fall 2015 - Spring 2016

- Applied knowledge from ITLL Electronics Center to help build a new electronics lab on the CU campus.
- Assisted with selecting microcontrollers and technologies to help shape the future direction of the Idea Forge.

### **CatalyzeCU:** Entrepreneur

Summer 2015

- Part of a competitive start-up accelerator with \$4000 in grant money at CU Boulder.
- Received mentorship in product design, finances, ideation, and giving an interesting product pitch.

### **Tri-State Fireworks:** PCB Designer

Spring 2015 - Winter 2015

- Worked to build a system to validate a novel fireworks launch system, using custom ARM PCBs.

### **ClearCorp:** PCB Design and Test

May 2014 - October 2014

- Primary designer for a new hardware revision of *FlocCounter* water treatment sensor, using Eagle PCB.
- Debugged, refurbished and assembled SMD and through-hole boards to be sent to municipal water utility customers.

## Projects

### **Senior Projects:** Educational Autonomous Robot

Fall 2015 - Spring 2016

- Part of multidisciplinary team to build an autonomous robot programmed with a drag-and-drop language.
- Hardware designed with modularity in mind to provide structure for a future hardware ecosystem.

### **Personal Project:** IoT Outlet Controller

Summer 2015 - Present

- Designed with idea that IoT can be implemented at the outlet level easier, and without rebuying new IoT devices.
- Currently HackADay project has > 100 followers. Link: <http://bit.ly/22Gn4UP>

## Programming Languages and Skills

- C; C++; Java; Python; L<sup>A</sup>T<sub>E</sub>X; Verilog HDL; Assembly; MATLAB; Mathematica; Excel.
- Comfortable working with embedded or Linux environments, Git and Version Control.
- CAD and PCB Layout Experience: Altium Designer, Eagle PCB, Solidworks, openSCAD.

## Leadership and Activities

### **ZBT Vice President of Communications**

Fall 2014 - Fall 2015

- Ensured that members 100+ person organization are aware of events and helped promote a positive culture.

### **Eagle Scout**

Spring 2010

- Planned a service event, and led 25 people to restore damaged shoreline on Eaglewatch Lake.