

## Education

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University of California, San Diego  
B.S. Computer Engineering

Expected Graduation: June 2018  
GPA: 3.65

## Experience

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### Cubic Transportation Systems | *Software Engineering Intern*

Jun – Sep 2016 | San Diego, CA

- Refactored software, debugged hardware portions of bus data tracker.
- Modularized software and made extensible via VM based dev environment.
- Used oscilloscope to improve system runtime efficiency by 10x.
- Used SPI/I2C protocol analyzer to improve data accuracy to > 99.9%.

### Leidos Inc | *Technical Software Intern*

Jun 2016 – Aug 2016 | San Diego, CA

- Designed prototype of firmware update system for embedded ARM systems.
- Utilized proprietary TLS/SSL libraries on RTOS to secure over-the-air updates.

### Workflow Recognition Research | *Undergraduate Researcher*

Oct 2016 – current | San Diego, CA

- Using machine learning techniques to develop intelligent material delivery system which supports the Steelcase manufacturing process.

### Triteia CubeSat | *Embedded Systems Specialist*

Oct 2015 – Jun 2016 | Students for the Exploration and Development of Space @ UCSD

- NASA initiative to design, construct, and send satellite into lunar orbit in 2018.
- Integrated ARM Cortex with sensors utilizing GPIO, SPI, I2C, UART protocols.

## Projects & Activities

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### Eventory | *Project Manager*

Mar 2016 – Jun 2016 | CSE 110 class project

- Developed events aggregator that connects students to popular UCSD events.
- Led 10 person team through planning and production phases of development.
- Android platform, Firebase backend, implemented with MVC model.

### Pill-osophy | *Team Lead*

Oct 2015 – Jun 2016 | ECE Design Competition

- Automated prescription information retrieval from medication containers.
- Utilized Tesseract in conjunction with OpenCV to process pictures of pills.

## Skills (ordered by proficiency)

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**Languages** | C++, C, Java, Sparc Assembly, HTML/CSS, Python, Javascript

**Tools & etc.** | Git, VMs, Ubuntu, oscilloscopes, I2C/SPI analysis, Android dev, vim