

# Patrick Ayers

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## Education

### University of California, Santa Cruz

*Bachelor of Science – Computer Engineering*

June 2015

- ❖ Studies focused on robotics and control systems.

*Master of Science – Computer Engineering*

- ❖ Expected Graduation June 2017

## Relevant studies

- ❖ Cyber-Physical Systems
- ❖ Feedback Control Systems Design
- ❖ Computer Architecture
- ❖ Computer Systems and Assembly Language
- ❖ Introduction to Mechatronics
- ❖ Sensing and Sensor Technology
- ❖ Logic Design with Verilog
- ❖ Microcontroller Systems Design

## Skills

- ❖ C & C++ (5+ years)
- ❖ MATLAB (2 years)
- ❖ X86 assembly (3 years)
- ❖ EAGLE PCB CAD(2 years)
- ❖ MPLAB X (1.5 years)
- ❖ Solidworks (1 year)
- ❖ Altium Designer (0.5 years)
- ❖ Circuit Analysis with Oscilloscope
- ❖ SMD soldering and hot air rework.
- ❖ 3D printing with Cura and Simplify3D.

## Experience

### University of California, Santa Cruz

Santa Cruz, CA

*Senior Design Mentor*

January 2016 – Present

- ❖ Conduct weekly meetings with several teams of computer and electrical engineering students to offer advice and evaluate the progress of their capstone projects.

*EMG Controlled Prosthetic Arm Project – Lead Hardware Designer*

January 2015 – June 2015

- ❖ Worked in a team of four to design a prosthetic arm for a congenital amputee.
- ❖ Personally responsible for choice of hardware components and routing three printed circuit boards to control the arm movement via signals from muscle sensors.
- ❖ Used cost-efficient and open source construction methods

### Cisco Systems

Santa Cruz, CA

*eSupport Development Intern*

June 2014 – Present

- ❖ Promoted to team leader in June of 2016
- ❖ Work with a team of student interns to improve online customer support for small business routers, switches, and wireless access point devices.
- ❖ Duties include setting up hardware topologies to simulate and troubleshoot user issues as well as improve existing online documentation.