

# Aaron Perley

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## Objective

Summer internship where I can apply my engineering skills to low-level software development

## Education

Carnegie Mellon University, Pittsburgh, PA

May 2017

Bachelor of Science in Electrical and Computer Engineering, additional major in Robotics

GPA 3.84 Carnegie Institute of Technology Dean's List Fall 2013, Fall 2014, Spring 2015

## Work Experience

### National Instruments Corporation – Software Engineering Intern

Summer 2015

Austin, TX

- Designed, developed, and tested features for a low-level generic PXI instrument driver implementing the VISA hardware abstraction layer
- Added support to a large internal framework to allow configuration of I/O hardware abstraction drivers
- Used agile software development practices including project planning with user stories and participating in daily stand-ups

### Seagate Technology – Software Development Intern

Summer 2014

Longmont, CO

- Developed system-level drive testing software to be deployed in Taiwan
- Worked with technical customer management and electromechanical engineering teams to establish customer-focused test procedures
- Implemented reference code for a Digital Rights Management specification

### Course Assistant for Introductory Python Programming Class (15-112)

2014 – 2015

Carnegie Mellon  
University

- Worked with 30 other assistants and professor to support 400 student class
- Planned and co-taught 1-hour recitation for 25 students
- Responded to student questions at in-person and online office hours

### Ubooly, Inc. (ubooly.com) – Web Development Intern

2013 – 2014

Boulder, CO

- Helped develop internal content management system and iOS API
- Met with small startup team weekly to plan product features and timeline

## Extracurricular Activities

### Spring Carnival Booth Chair, Delta Tau Delta Fraternity

Fall 2014 – present

- Worked with a five person team to organize the design, budget, construction, and demolition of a two-story 350 sq. ft. fun house
- Helped coordinated the work of over 70 fraternity members

### Carnegie Mellon Robotics Club

Fall 2013 – present

- Fall 2014 co-lead for driving swarm robotics project ([roboclub.org/projects/colony](http://roboclub.org/projects/colony))
- Contributed to layout, production, and testing of IR sensor module

## Skills

Programming: Python, C/C++, x86 Assembly, System Verilog, MATLAB, JavaScript, HTML, CSS, Ruby

Software: EAGLE PCB design, Git, Perforce, Linux System Administration