Aaron Perley

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Objective

Summer internship where I can apply my engineering skills to software and hardware development

Education

Carnegie Mellon University, Pittsburgh, PA   May 2017
Bachelor of Science in Electrical and Computer Engineering, additional major in Robotics
GPA 3.66   Carnegie Institute of Technology Dean's List Fall 2013

Volunteer and Work Experience

Seagate Technology – Software Development Intern   Summer 2014
- Developed system-level drive testing software to be deployed in Taiwan   Longmont, CO
- Worked with technical customer management and electromechanical
  engineering teams to establish customer-focused test procedures
- Wrote reference Python code implementing part of an emerging Digital
  Rights Management specification

Course Assistant for Introductory Python Programming Class (15-112)   January 2014 –
- Work with 30 other assistants and professor to support 400 student class   present
- Plan and co-teach 1-hour recitation for 25 students   Carnegie Mellon
- Respond to student questions at in-person and online office hours   University
- Grade homework and quizzes for correctness and programming style

Ubooly, Inc. (ubooly.com) – Web Development Intern   February 2013 –
- Helped write internal content management system and iOS API   January 2014
- Met with small startup team weekly to plan product features and timeline   Boulder, CO
- Educated new team members on using internal tools

Institute for Arctic and Alpine Research (INSTAAR) – Intern   Summer 2011
- Processed water samples and analyzed dissolved organic matter readings   University of
- Wrote MATLAB code to automate analysis of spectral data   Colorado at Boulder

Extracurricular Activities

Carnegie Mellon Robotics Club   Fall 2013 – present
- Fall 2014 co-lead for driving swarm robotics project (roboclub.org/projects/colony)
- Contributed to layout, production, and testing of IR sensor module
- Developed C library implementing I^{2}C protocol for Atmel microcontroller
- Working with team to develop shield board for embedded Linux system

Carnegie Mellon Ultimate Frisbee Team   Fall 2013 – present

Skills

Web Development: HTML, CSS, Javascript, jQuery, Ruby on Rails, NodeJS (Express), MySQL, Git
Programming: Python, Ruby, C, MATLAB