

Objective: To obtain a position as a summer software intern at an institution in which I can apply my understanding of Computer Science and learn industrial standard software development skills and practices.

Education

University of California, Berkeley

Electrical Engineering and Computer Science (EECS) Major

Berkeley, CA

May 2016

- UC GPA: 4.00
- Past and Ongoing Coursework: Fall '12: CS61A: *The Structure and Interpretation of Computer Programs (Python)*, Anthropology R5B: *The Environment as a Human Right*, Physics 7A: *Physics for Scientists and Engineers, Mechanics*; Spring '13: CS61B: *Data Structures (Java)*, CS9F: *C++ (C++)*, EE20N: *Signals and Systems (LabVIEW)*, Physics 7B: *Physics for Scientists and Engineers, Heat and Electromagnetism*; Waitlisted: CS70: *Discrete mathematics and probability theory*

El Segundo High School

Graduated in June of 2012

El Segundo, CA

June 2012

- GPA: 4.63

Workplace Experience

Northrop Grumman Corporation

Software Engineering HIP Intern

El Segundo, CA

February 2012 – June 2012

Worked with Software Engineering team on mission control software

- Analyzed Delaunay Triangulation Algorithm for corner cases
- Participated in the Airplane Design and Remote Control Demo course

Mattel Corporation

Global Information Technology Intern

El Segundo, CA

November 2011 – January 2012

- Implemented PrePlan Database and user interface
- Designed an Electronic Project Management Plus logo

Projects

Scheme Interpreter (Python)

- Designed and implemented an interpreter for the Scheme Language
- Extended the Scheme language to support Dynamical Scoping

LifeOST (Android)

- GPS-based Android music player designed to allow users to map songs to locations
- Developed using the Phonegap, Android, and Bootstrap frameworks

ÜberPong (HTML5/Javascript)

- Web-based 3D Pong redux using the Leap Motion controller as the player interface
- Developed using HTML5, Three.js, and the Leap Motion developer API

Activities

Hackers@Berkeley

Hackathon Participant

UC Berkeley

August 2012-Present

Produced functional web applications within a 24-hour timeframe

- Projects available at <https://github.com/Arctangent1759>

FIRST Robotics Team 1759

Co-President

Directed team operations through the 2012 FRC robotics competition season.

- Finalized CAD models for machining
- Developed 2012 financial plan and build schedule
- Redefined team roles and command structure

Lead Programmer

September 2009 – June 2012

Developed real time robot control software on the National Instruments Compact RIO platform.

- Developed team LabVIEW proficiency
- Perfected robot target tracking and image processing algorithms
- Integrated sensor data and actuation using PID motion control
- Instructed new programmers for the 2013 team

Technical Skills

- Programming Languages: Javascript, HTML5, Python, Java, LabVIEW, Visual Basic
- API Proficiencies: Node.js, JQuery, Bootstrap, Android, Phonegap, Leap, Three.js, BeautifulSoup
- Development Environments: vim, GitHub, Eclipse, Netbeans, Microsoft Visual Studio

Additional information

- Other Software Proficiencies: GIMP, Autodesk Inventor
- Languages: English, Spanish, Spoken Cantonese
- Interests: Front and Back End Web Development, Robotics