

Raphael Long

rafilong.com

rjlong2@illinois.edu

(650) 630-9731

Education

University of Illinois at Urbana Champaign
BS Computer Science in Engineering
2017-2021
-./4.00 GPA

Palo Alto High School
High School Diploma
2013-2017
4.00/4.00 Unweighted GPA

Experience

Advanced Authentic Research Program Student 2016-2017

- Used MATLAB to model propagation of noise in wireless systems
- Created research paper and presented at end of year showcase

Software Captain, FIRST Robotics Competition Team 6036 2016 - 2017

- Led team of 4 to develop autonomous and remote control robot code
- Instructed students in C++, Java, UNIX, and version control

Mentor, Design Farm Summer 2016

- Instructed group of 8 students in design process and principles
- Worked on pneumatic bike and underwater drone prototypes

Mentee, Mentored by Moritz Hardt 2015 - 2016

- Analyzed data in Python using numpy to illustrate unexpected bias in machine learning
- Constructed use cases to test the effectiveness of definitions of prejudice

Assistant Coach, Wheel Kids Bike Club Summer 2015

- Taught bike safety and supervised group activities
- Led groups of 15 kids on local bike trips

FIRST Robotics Competition Team 8 2013 - 2016

Web Captain 2014 - 2016

- Created new content and maintained team website
- Lead team of 5 and instructed students in HTML, CSS, JS, and version control

Scouting Captain 2013 - 2016

- Developed system to analyze competitor robots' ability
- Compiled data to create a ranked list of teams
- Delegated tasks and managed up to 30 members in competition setting

Web Member 2013 - 2014

- Worked with team of 5 to create a team website

Skills

Experienced with Java, Python, HTML, CSS, Javascript, MatLab, C++, UNIX, and Lua

Awards

2017 - AP Scholar with Distinction
2017 - National Merit Scholarship Finalist
2015 - English Department Award
2014 - Foreign Language Department Award
2014 - Math Department Award