

# Kyle Gronich

## Education:

University of California, Los Angeles

June 2016

- Henry Samueli School of Engineering and Applied Science
- GPA: 3.47
- Coursework: OOP I/II, Computer Architecture & Machine Language, Operating Systems, Algorithms, Machine Learning, Digital Logic Design, Calculus I/II, Linear Algebra, Differential Equations, Discrete Math, Physics

Oak Park High School, Oak Park, CA

June 2012

- GPA: 4.47
- Honors: Summa Cum Laude w/ Highest Honors, CA Scholarship Federation, National Honors Society

## Experience:

The Coding School, Los Angeles, CA  
Instructor, Curriculum Developer

June 2014 – Present

- Teach after-school computer science classes at elementary and middle schools using Scratch and Python
- Collaborate with other instructors to design curriculum, programming exercises, and lesson plans for classes

MelroseMAC Inc, Hollywood, CA  
Web Developer

June 2014 – Sept 2014

- Rebuilt the company website from the ground up utilizing self-taught knowledge of HTML/CSS and marketing tools
- Assisted as an integral member of multiple teams in designing, restructuring, and reorganizing the user interface

ELFIN CubeSat, UCLA  
Attitude Determination & Control Team

May 2014 – Present

- Design and implement various mechanisms used to control and acquire the orientation of the satellite in space
- Utilize Matlab to create an algorithm that uses various instruments and devices to control the orientation of ELFIN

MicroMouse – IEEE, UCLA  
Team Member

Oct 2013 – June 2014

# Kyle Gronich

- Designed and programmed an autonomous, maze-solving robot using an Arduino and an array of sensors
- Applied skills in circuit design, microcontroller programming, circuit debugging, feedback control, sensor fusion

Bruin Partners, UCLA  
Mentor

Oct 2013 – June 2014

- Tutored and mentored students for two hours per week at a middle school after-school program
- Built an academic and personal relationship with a student through tutoring and field trips

Open Project Space (OPS) – IEEE, UCLA  
Member

Oct 2012 – June 2013

- Implemented projects such as a digital synthesizer, a low battery indicator, soldering, and an EAGLE designed PCB
- Attended weekly meetings to learn the basic theory and hands-on skills necessary for the projects

## **Awards, Honors & Professional Memberships:**

Student Member, Eta Kappa Nu (HKN) Honor Society 2014 – Present

Student Member, Association for Computing Machinery (ACM) 2014 – Present

Student Member, Institute of Electrical & Electronics Engineers (IEEE) 2012 – Present

Student Member, Engineering Society of the Univ. of California (ESUC) 2012 – Present

## **Professional Skills:**

Languages:

- C, C++, Java, Python, HTML, CSS, JavaScript, Ruby, Shell Scripting, Matlab

Skills and Environments:

- Git/GitHub, Visual Studio, CLI, Linux/Unix (Ubuntu), Windows, Mac OS X, Arduino, Breadboarding, Soldering