**Education**

**HARVARD UNIVERSITY** *Cambridge, MA*

A.B. Candidate in Electrical Engineering, Secondary Degree Candidate in Psychology *May 2017*

Relevant courses: Laboratory Electronics, Social Psychology, Expository Writing, Systems Programming

3.32 GPA

**UNIVERSIDAD CARLOS III DE MADRID** *Madrid, Spain*

Study abroad term; coursework included Materials Science and Industrial Automation *Fall 2015*

**ATHENS ACADEMY** *Athens, GA*

800 SAT Math, 710 SAT Verbal, 720 SAT Written, 35 ACT *May 2013*

**Research and Design Projects**

**AUDIO SYSTEM: SPEAKERS AND AMPLIFIERS** *Cambridge, MA & Madison, GA*

*Personal Project May 2016 – September 2016*

Designed and fabricated entire 6-part home audio system with **no prior experience in audio equipment**

* Conducted 7 weeks of electronics/acoustics research before constructing 3 amplifiers and 3 speaker cabinets
* Designed circuitry, calculated power consumption, learned new software, planned physical layout
* Evaluated each amplifier piece-wise in electronics laboratory before assembly

***Medical Device Design* (ES-227) GAIT ANALYSIS DEVICE** *Cambridge, MA*

*Team Member (1 of 4) January 2016 – May 2016*

Semester-long project prototyping novel wearable device to monitor acceleration and angle of tibia during running

* Researched prior art in commercial field and reverse-engineered currently available devices
* Worked with team for 15-25 hours each week on coding, scheduling, testing, presentations, and meetings
* Focused heavily on presentation style for weekly update meetings with teaching staff

***Joy of Electronics* (ES-52) BICYCLE SAFETY SYSTEM** *Cambridge, MA*

*Team Member (1 of 3) April 2015 – May 2015*

Overhauled a typical bicycle by designing circuit-based odometer, turn signals, speedometer, and proximity sensor

* Brainstormed areas of college life that could effectively be improved with electronics (bicycles)
* Considered all bicycle additions we could, then selected only the most practical and applicable options
* Designed and built wheel rotation counter, speedometer, and odometer for group

**Leadership Experience**

**EXPRESSIONS DANCE CREW** *Cambridge, MA*

*Choreographer September 2016 – October 2016*

Organized 4 hours of weekly rehearsal, choreographed for 6+ hours weekly, arranged show lighting and formations, tutored dancers who missed rehearsal, arranged social events for team bonding

**HARVARD SUMMER SCHOOL** *Cambridge, MA*

*Proctor (2015, 2016), Assistant Coordinator (2015)* *Summer 2015, Summer 2016*

As proctor, supervised 30 students for the duration of the summer and worked closely with 13 co-proctors and dean. As assistant coordinator, finalized logistics for 25+ trips available to students and trained proctors to lead trips

**Language, Technical, and Creative Skills**

**Intermediate Spanish:** 4 years of high school Spanish, 2 semesters of college Spanish, semester abroad in Spain

**Laboratory Electronics:** Analog and digital, soldering, oscilloscopes, power supplies, AC and DC signals

**Programming:** Experience with C, HTML, CSS, SQL, Matlab, STATA, Unity Pro

**Creative Design:** Painting, drawing, photography, pottery, 3D design, woodworking