

Frank Elsivan DuBose

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Education

HARVARD UNIVERSITY

A.B. Candidate in Electrical Engineering, Secondary Degree Candidate in Psychology
Relevant courses: Introduction to Electronics, Social Psychology, Expository Writing, Systems Programming
3.32 GPA

Cambridge, MA

May 2017

UNIVERSIDAD CARLOS III DE MADRID

Study abroad term; coursework included Materials Science and Industrial Automation

Madrid, Spain

Fall 2015

ATHENS ACADEMY

800 SAT Math, 710 SAT Verbal, 720 SAT Written, 35 ACT

Athens, GA

May 2013

Research and Design Projects

HOME AUDIO SYSTEM

Personal Project

Cambridge, MA & Madison, GA

May 2016 – September 2016

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

- Researched electronics and acoustics information needed to construct both amplifiers and speaker cabinets
- Studied and mastered unfamiliar electrical circuits to integrate with circuits of my design
- Thoroughly tested each component piece-wise before assembly of electronics

Medical Device Design (ES-227) GAIT ANALYSIS DEVICE

Team Member

Cambridge, MA

January 2016 – May 2016

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

- Interviewed physicians and researchers to pinpoint medical need for running form monitor
- Researched prior art in commercial field and analyzed functionality and performance of current devices
- Worked with team for 15-25 hours each week and completed a proof-of-concept final product

Joy of Electronics (ES-52) BICYCLE SAFETY SYSTEM

Team Member

Cambridge, MA

April 2015 – May 2015

Overhauled a typical bicycle by incorporating odometer, turn signals, speedometer, and proximity sensor

- Brainstormed areas of college life that could efficiently and effectively be improved with electronics
 - Considered all features we could think of, then selected only the most practical and widely-applicable options
 - Divided main components above among teammates but collaborated on the more challenging elements
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Leadership Experience

EXPRESSIONS DANCE CREW

Choreographer

Cambridge, MA

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

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

Cambridge, MA

Summer 2015, Summer 2016

As proctor, supervised 30 students and worked closely with 13 co-proctors and dean. As assistant coordinator, finalized logistics for 25+ trips available to summer school students and trained proctors on how to chaperone 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