Rebecca (Becky) Abramowitz

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science
BSE, Mechanical Engineering and Applied Mechanics. Minor in Computer Science (May 2018) **GPA:** 3.88/4.00
MSE, Robotics (December 2018) **GPA:** 4.00/4.00
Coursework: Design of Mechatronic Systems, Robotics, Computer Systems, Software Engineering, Data Structures & Algorithms, Engineering Complex Networks, Mechanical Design, Product Design.
Activities: Alpha Omega Epsilon, Social/Recruitment Chair. Penn Appétit Magazine, Design Editor. ASME, Webmaster.
Honors: Tau Beta Pi. Dean's List 2014-15, 2015-16.

King's College London, Undergraduate Summer School (two Humanities courses) **June - August 2016**

Castilleja School, Palo Alto, CA GPA: 3.9 **2011-2014**
Menlo-Atherton High School, Atherton, CA GPA: 4.0 **2010-2011**
Activities: FIRST Robotics Competition Lead. Varsity Track (Captain), Soccer. Yearbook Editor; ACT Composite: 35/36.

TECHNICAL EXPERIENCE

University of Pennsylvania, Philadelphia, PA
Teaching Assistant CIS 120 (Programming Languages & Technique I) **August 2015 – May 2017**
Mentor CIS 110 (Introduction to Computer Programming) **January – May 2015**
- Member of staff for introductory computer science classes taught using Java (CIS 110, 120) and OCaml (CIS 120).
- Plan and lead weekly recitation for 20+ students. Hold office hours. Grade homework and exams.
- Head of recitation materials for 2 semesters. Created and established generalized recitation presentations, guides.

Comcast, Silicon Valley Innovation Center, Sunnyvale, CA **May - June 2016**
Intern, Office of VP of Product Strategy & Development
- Collaborated with xFi UX team to dogfood test software. Recommended ways to improve ease of use.
- Prepared comprehensive competitive analysis of consumer sentiment on home router products.

Autodesk Inc., San Francisco, CA **Summer 2015**
Applied Innovation Intern, Office of the CTO
- Collaborated with two interns to design, CAD and create a novel, foldable helmet profiled in *FastCompany*.
- Provided input to Fusion360 software and design teams. Designed new features, including a spur-gear plugin.
- Earned Autodesk certification on MIG Welder, Shopbot CNC, Water Jet, 5-axis CNC, 3D Printer, Laser Cutter.

Embark Labs, Mountain View, CA (start-up STEM afterschool design lab) **Summer 2014**
Intern
- Developed curriculum for 12-week course in Lego Robotics. Co-led a Scratch coding camp.

TECHNICAL PROJECTS

- Developed strategy and wrote code for 3 autonomous, hockey-playing robots for graduate mechatronics course.
- Designed, co-wrote Android app for Penn Working Dog Center to track training of search and rescue dogs.
- Co-wrote GatorScout, iOS app to store, retrieve information collected in FIRST Robotics Competition challenge.
- Independent projects: Designed and created personal website and photo blog for Summer Abroad 2016.

PERSONAL PROFILE

Leadership Council for South Peninsula Jewish Teen Foundation, Palo Alto CA August 2012 – May 2014
- Ran meetings for teen-led, philanthropic board that raises and allocates > $65k/year to selected nonprofits.
- Wrote mission statement, wrote Requests for Proposal and evaluated responses, researched potential grantees, led consensus decision making process, and interacted directly with international CEOs.
- Interviewed prospective board members and professional candidates for foundation project director.

Skills
- Proficient at Java, OCaml, MATLAB. Working Knowledge of C, Python, Objective C, HTML, CSS, Bootstrap, Latex.
- Proficient in SolidWorks, Fusion360, WordPress, GoogleDocs, Microsoft Office, conversational Spanish.

Interests
- Traveling, running, and exploring the outdoors. Fan of the San Francisco Giants and Golden State Warriors.