

# Rebecca (Becky) Abramowitz

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*Creative problem solver with strong interpersonal skills seeking a summer internship where I can apply my technical background and design experience.*

## EDUCATION

**University of Pennsylvania, School of Engineering and Applied Science** **Candidate for BSE, May 2018**  
*Majoring in Mechanical Engineering and Applied Mechanics. Minor in Computer Science.* **GPA: 3.9/4.0**  
*Coursework:* Data Structures & Algorithms, Programming Language & Techniques, Software Engineering, Complex Networks, Mechatronic Systems, Robotics, Mechanical Design, Fluid Mechanics, Thermodynamics, Differential Equations.  
*Activities:* Alpha Omega Epsilon Social/Recruitment Chair. Penn Appétit Magazine Design Editor. ASME Webmaster. Tau Beta Pi.

**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 Co-Captain. Varsity Soccer. Yearbook Editor; ACT Composite: 35/36.

## TECHNICAL EXPERIENCE

**University of Pennsylvania, Philadelphia, PA**  
*Teaching Assistant CIS 120 (Programming Languages & Technique I)* **August 2015 – Present**  
*Mentor CIS 110 (Introduction to Computer Programming)* **January – May 2015**

- Member of course 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.

**Comcast, Silicon Valley Innovation Center, Sunnyvale, CA** **May - June 2016**  
*Intern, Office of VP of Product Strategy & Development*

- Collaborated with user experience team to dogfood test router 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 novel mushroom-based foldable helmet profiled in *FastCompany*.
- Provided input to Fusion360 software and design teams. Designed new features and functions, including a spur-gear plugin.
- Earned Autodesk certification on the MIG Welder, Shopbot 3-axis CNC, Water Jet, 5-axis CNC, 3D Printer, and 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 coding camp in Scratch for elementary school students.

**PowerCloud Systems, Palo Alto, CA (venture-backed start-up acquired by Comcast)** **Summer 2013**  
*Intern*

- Edited Company website and developed marketing collateral. Revised video script for successful Kickstarter campaign for Skydog, a home networking solution for families. Revised Skydog user guide and FAQs, helping it obtain 4.5 stars on Amazon.

## TECHNICAL PROJECTS & SKILLS

- Developed strategy and wrote code for 3 autonomous hockey-playing robots for graduate mechatronics course tournament.
- Co-wrote GatorScout, iOS app to compile, store, retrieve information collected in FIRST Robotics Competition challenge.
- Designed and co-wrote Android application for Penn Working Dog Center to assist with training of search and rescue dogs.
- Independent projects: Designed and created personal website and photo blog for Summer Abroad 2016.
- Proficient at Java, OCaml, C, MATLAB. Some Knowledge of Python, Objective C, HTML, CSS, Bootstrap, LaTeX.
- Proficient in SolidWorks, Fusion360, WordPress, GoogleDocs, conversational Spanish.

## 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.

### Interests

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