

# REBECCA (BECKY) ABRAMOWITZ

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## EDUCATION

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UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA

**MSE, Robotics (exp. December 2018)**

GPA: 3.96/4.00

*Coursework:* Design of Mechatronic Systems, Robotics, Feedback Control, Applied Machine Learning, Machine Perception, Computer Graphics (C++), Product Design

UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA

**BSE, Mechanical Engineering and Applied Mechanics, Minor in Computer Science**

GPA: 3.90/4.00

*Activities:* Alpha Omega Epsilon, Pledge/Social/Recruitment Chair. ASME, Webmaster.

*Honors:* Hugo Otto Wolf Memorial Prize (highest faculty approval in department), Summa Cum Laude, Tau Beta Pi, Dean's List all years

## EXPERIENCE

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X – THE MOONSHOT FACTORY (formerly Google X), Mountain View, CA

May 2018 – Present

*Robotics Intern*

AMAZON.COM, Seattle, WA

May – August 2017

*Software Development Engineering Intern, Amazon Fulfilment Technologies*

- Designed and implemented a full-stack web application to set configurations and overrides for fulfillment center capacity optimization. Site is currently being used by fulfillment centers domestically and worldwide.
- Utilized Agile programming techniques, Git, Dynamo DB, S3, AngularJS. Collaborated with UX team to design UI.

UNIVERSITY OF PENNSYLVANIA, Philadelphia PA

*CIS 120 (Programming Languages & Techniques: OCaml, Java) Course Staff*

Aug 2015 – May 2017, Jan – May 2018

*CIS 110 (Introduction to Computer Programming: Java) Course Staff*

Jan – May 2015

- Planned and led weekly recitations for 20+ students. Held weekly office hours. Graded homework and exams.
- Head of recitation materials for two semesters. Created and established generalized recitation presentations and guides.

COMCAST, 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

June – August 2015

*Applied Innovation Intern, Office of the CTO*

- Collaborated with two interns to design, CAD and create a novel, foldable bike helmet profiled in FastCompany.
- Provided input to Fusion360 software and design teams. Designed new features, including a spur-gear plugin.

## PROJECTS

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- Developed strategy and wrote code for 3 autonomous, hockey-playing robots for graduate mechatronics course.
  - Led software development and hardware-software integration for a six-person Senior Design project to develop an autonomous wearable for children with Autism and accompanying iOS application. Project won Judges' Choice Award.
  - Worked in a team to develop code for a 6 DoF PUMA robot to create a 3D drawing using inverse kinematics.
  - Implemented and tuned closed-loop PID control to stabilize a reverse pendulum robot.
  - Worked on a team to develop an interactive "Mini-Minecraft" game for graduate graphics course.
  - Designed and co-wrote Android app for Penn Working Dog Center to track training of search and rescue dogs.

## SKILLS & INTERESTS

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**Software:** Proficient at Java, MATLAB, OCaml, C, C++, Git. Working knowledge of Python, JavaScript, HTML, CSS, AngularJS, DynamoDB, S3, Objective C, Spring Framework.

**Mechanical:** Proficient in SolidWorks, Fusion360. Some knowledge of ANSYS, COMSOL. Extensive experience with 3D Printers, Laser Cutters, Drill Press, Miter Saw, Band Saw. Experience with CNC.

**Other:** Adobe InDesign, WordPress, Google Docs, Microsoft Office, conversational Spanish. Enjoys traveling, running, and exploring the outdoors. Long-time fan of the San Francisco Giants and Golden State Warriors.