

# DANIELLE GELB

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## WORK EXPERIENCE

### UX Designer

RBG Applications

Jul 2016 – Aug 2016  
Cape Town, South Africa

- UX and UI of web and iOS applications.
- Mapped user journey end-to-end, conducted usability testing to measure user experience success, and created interactive prototypes.
- Shared UX insights with City of Cape Town leaders.

### Research and Exploratory Development Intern

Johns Hopkins Applied Physics Laboratory

Sept 2014 – May 2015  
Columbia, MD

- Applied programming and design skills to implement Proportional-Integral-Derivative controllers in unmanned ground vehicles.
- Simulated unmanned vehicles using Unity 3D.
- Strengthened autonomous speed and steering performance of unmanned ground vehicles.

## EDUCATION

### University of Pennsylvania, School of Engineering and Applied Science

Philadelphia, PA  
May 2019

Candidate for B.S.E. in Mechanical Engineering and Applied Mathematics  
Cumulative GPA: 3.57/4.00

Relevant Coursework: Machine Design and Manufacturing, Introduction to Mechanical Design, Statics and Strength of Materials, Introduction to Scientific Computing, Linear Algebra, Calculus III, Calculus II, Introduction to Mechanics, Physics: Electricity and Magnetism

## LEADERSHIP

Penn Aerospace Club

- Active member of the High Altitude Balloon Team; launch three balloons per semester.
- Implement altitude control using microcontrollers to regulate helium release.
- Analyze balloon behavior in space to design altitude control mechanisms.

Tamid Group at Penn

- Assistant project leader of Cymbio consulting team.
- Lead a team in developing a go-to market strategy for Cymbio to enter US markets.
- Complete market analysis and present business development strategy.

Jewish Peer Engagement Network

- Engage freshmen and other interested students in Jewish life at Penn.
- Build leadership skills while creating a Jewish community on campus.
- Oversee and assist a freshmen activity committee.

## SKILLS

CAD (SolidWorks) • Manual and CNC Mill • Manual Lathe • Laser Cutters • 3D-Printing • Engineering Drawings • GD&T • MATLAB • Microcontrollers (Arduino) • Sketch