

# Benjamin Bernstein

benb116@gmail.com

<http://benbernstein.me>

## Education

University of Pennsylvania, School of Engineering and Applied Science Philadelphia, PA  
Candidate for Bachelor of Science in Engineering May 2018

Cumulative GPA: 3.58 / 4.00 Major: Mechanical Engineering and Applied Mechanics  
Specialized Coursework: Mechanical Design (SolidWorks), Machine Design and  
Manufacturing, Scientific Computing (MATLAB)

Jack M. Barrack Hebrew Academy Bryn Mawr, PA  
Honors: AAPT 2013 Outstanding Physics Student of the Year, 2013 Rensselaer Medal June 2014  
Award, Pennsylvania Senatorial Good Citizenship Award, Senior Hebrew Award  
Activities: Robotics Club, Class Treasurer, Layout Editor for Hebrew Newspaper

## Skills

Hardware: Machining, CNC, 3D printing, laser cutting, basic soldering, electronics debugging  
Software: SolidWorks, MATLAB, Xilinx, MS Office (Word, Excel, PowerPoint), Adobe InDesign  
Programming: MATLAB, Shell, HTML, CSS, JavaScript. Familiar with C++, Python, VHDL  
Operating Systems: Windows, Mac OS X, Linux  
Languages: Hebrew (fluent), Spanish (familiar)

## Experience

Fender Musical Instruments Corporation Corona, CA  
Intern - Manufacturing/Mechanical Engineer May 2016 – July 2016

Penn Electric Racing, University of Pennsylvania Philadelphia, PA  
Mechanical Team Member March 2016 - Present  
Manufactured parts for our team's electric Formula SAE race car, focusing on pieces  
in the suspension. Assisted with assembling the car and testing its performance.

Kodlab, University of Pennsylvania GRASP Lab Philadelphia, PA  
Research Assistant February 2015 - Present  
Designed a functional legged robot quadruped and assembled its mechanical and  
electrical components for research in dynamic legged locomotion. Performed tests  
to determine the dynamic capabilities of the platform.  
Side projects include a robot-mounted motorized camera gimbal, thermal and  
mechanical characterization of electric motors, finite element analysis (FEA) of  
structural components for weight reduction, and various rapid prototyping tasks.

College House Computing, University of Pennsylvania Philadelphia, PA  
Information Technology Advisor August 2014 - Present  
Assist students in the dorms with connecting to networks, removing viruses, setting  
up new devices, and general troubleshooting