

Benjamin Bernstein

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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: 3.66 / 4.00 Major: Mechanical Engineering and Applied Mechanics
Specialized Coursework: Mechanical Design (SolidWorks), Machine Design and
Manufacturing, Scientific Computing (MATLAB)

University of Pennsylvania, Pennsylvania Summer Science Institute Philadelphia, PA
Performed experimental labs using Scanning Electron Microscopy, tensile tests, and June – July 2012
differential scanning calorimetry

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

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

The Franklin Institute Philadelphia, PA
Greeter, Guest Services May – August 2014
Answered questions while maintaining a welcoming environment for guests.
Science Presenter (volunteer) June 2011 - May 2014
Enhanced visitors' experiences by guiding them through interactive features in exhibits and assisting with hands-on science demonstrations