

Benjamin Bernstein

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Portfolio: <http://benbernstein.me>

Education

<i>University of Pennsylvania, School of Engineering and Applied Science</i>		Philadelphia, PA
Candidate for Master of Science in Engineering: Robotics	GPA: 3.46 / 4.00	May 2019
Bachelor of Science in Engineering		May 2018
Major: Mechanical Engineering and Applied Mechanics	GPA: 3.59 / 4.00	

Skills

Hardware: Machining, CNC, injection molding, 3D printing, laser cutting, Arduino, circuit design

Software: SolidWorks, SolidCAM, MATLAB, MS Office. Familiar with Mastercam, COMSOL, Altium

Programming: G-code, Python, VBA, Bash, JavaScript, HTML, CSS. Familiar with C++.

Languages: Hebrew (fluent), Spanish (familiar)

Experience

<i>LifeWatch</i>	Philadelphia, PA
Co-founder	September 2017 – Present
<ul style="list-style-type: none">Designed, built, and tested a wearable epinephrine auto-injector (a.k.a. EpiPen).Filed provisional patent application, received 1st place in multiple capstone design competitions, 3rd place in the BMEidea competition, and \$7,500 in total grants.Pursuing further development and partnering to bring the device to market.	

<i>Deeplocal, Inc.</i>	Sharpsburg, PA
Mechanical Engineering Intern	May 2018 – August 2018
<ul style="list-style-type: none">Created complex mechanisms and custom machines for use in advertising campaigns by various tech companies.Communicated with clients to meet form and function requirements.Worked under tight deadlines as part of multi-disciplinary teams to develop concepts, prototype ideas, and deliver polished products to clients.	

<i>Axon Enterprise, Inc. (Formerly TASER International)</i>	Scottsdale, AZ
R&D Hardware Engineering Intern – Conducted Electrical Weapons	June 2017 – August 2017
<ul style="list-style-type: none">Developed a component for TASER 7 training darts that utilizes injection molded and die cut parts.Designed and thoroughly tested multiple prototypes while participating in supplier visits and design reviews. Expected production of 200,000 parts annually.Assisted in the design, prototyping, testing, and analysis of various TASER cartridge components with the goal of increasing accuracy and reliability.	

<i>Kodlab, University of Pennsylvania GRASP Lab</i>	Philadelphia, PA
Research Assistant	February 2015 – May 2016
<ul style="list-style-type: none">Designed a legged robot quadruped and assembled its mechanical and electrical components for research in dynamic legged locomotion.Side projects included building a robot-mounted motorized camera gimbal, thermal and mechanical characterization of electric motors, and finite element analysis.	