Benjamin Bernstein

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Portfolio: http://benbernstein.me

Education

University of Pennsylvania, School of Engineering and Applied Science — Philadelphia, PA

Candidate for Master of Science in Engineering: Robotics — GPA: 3.67 / 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: C/C++, G-code, Python, VBA, Bash, JavaScript, HTML, CSS.
Languages: Hebrew (fluent), Spanish (familiar)

Experience

LifeWatch — Philadelphia, PA

Co-founder — September 2017 – Present

- Designed, built, and tested a wearable epinephrine auto-injector (a.k.a. EpiPen).
- Filed provisional patent application, received 1st place in multiple Senior Design competitions, 3rd place in the BMEidea competition, and $7,500 in total grants.
- Pursuing further development and partnering to help bring the device to market.

Deeplocal, Inc. — Sharpsburg, PA

Mechanical Engineering Intern — May 2018 – August 2018

- 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.

Axon Enterprise, Inc. (Formerly TASER International) — Scottsdale, AZ

R&D Hardware Engineering Intern – Conducted Electrical Weapons — June 2017 – August 2017

- Developed an injection molded component to be used in TASER weapons.
- 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.

Kodlab, University of Pennsylvania GRASP Lab — Philadelphia, PA

Research Assistant — February 2015 – May 2016

- 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.