

## Education

Drexel University  
Bachelor of Science in Mechanical Engineering  
Master of Science in Mechanical Engineering

Philadelphia, Pennsylvania  
Anticipated Graduation -- June 2018  
**Cumulative GPA: 3.81**

## Skills

Computer: Solidworks, Siemens NX, TeamCenter, AutoCAD, Inventor, Creo Parametric/Pro Engineer, MATLAB, Ansys Workbench, COMSOL, Arduino, WordPress, Windows, Microsoft Office (Excel, PowerPoint, Word)

Machine: Mill, Lathe, 3D Printer, Multimeter, Power Probe, Oscilloscope, Soldering Iron, Shop Tools

## Relevant Coursework

Fluid Dynamics/ Heat Transfer  
Manufacturing Processes

Advanced Dynamics  
Engineering Management

Nonlinear Control Theory  
Applied Engineering Analysis

## Experience

Wind Power

Concept Development Engineer

Philadelphia  
July to September 2017

- Sought to improve technology in modern sailboats to further increase performance
- Performed CFD and dynamic analysis on existing and concept sail designs

Unilife Corporation

Product Development Engineering Coop

King of Prussia, PA  
April to July 2017

- Developed design and manufacturability of novel wearable drug injectors
- Designed assembly fixtures to simplify or eliminate assembly steps
- Conducted testing and failure analysis of prototypes and production devices

L3 Communications Systems East

Hardware Engineer

Camden, NJ  
March to September 2016

- Designed mechanical production parts using Pro Engineer to meet heat and space constraints
- Worked with project managers to order parts and meet project deadlines
- Worked with suppliers and engineers to confirm parts met environmental requirements
- Developed internal WordPress website to promote innovation and entrepreneurship

Southco - Electronic Access Solutions

Mechanical Engineering Coop

Concordville, PA  
March to September 2015

- Designed and built mechanical and electrical prototypes and production parts
- Performed failure testing and analysis on prototypes and production parts
- Created and modified 2D drawings and 3D models in Siemens NX

## Engineering Design Project

Drexel University

Robotic Knee - Designer/Programmer

Philadelphia, Pennsylvania  
April to June, 2014

- Design an improved lower limb in Creo with capacity to bend and create more natural movement to replace traditional crutches
- Program Arduino micro controller to utilize electric linear actuator to initiate changes in movement
- Collaborate with team to build prototype and resolve problems with complexity, weight, and budgetary constraints

## Honors

Dean's List, Drexel University, 2013-Present  
Alumni Scholarship, Drexel University, 2013-Present

A.J. Drexel Scholarship, Drexel University, 2013-Present

**Activities**

Men's Rowing, Drexel University, 2013-2017; Equipment Mechanic 2013-Present  
Drexel University ASME, American Society of Mechanical Engineers, 2013-Present