

Matthew Archer Oslin

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Experience

Teaching Assistant, UPenn Integrated Product Design Course, Philadelphia, PA **Spring 2018**

- Teaching assistant run design and computer aided machining course
- Focus on advanced manufacturing processes such as CNC milling and turning, urethane casting, injection molding, vacuum forming, and carbon fiber layup

Machine Shop Assistant, UPenn Precision Machining Lab, Philadelphia, PA **Fall 2016 – Present**

- Maintain a clean and safe shop, assist users with machining projects

Undergraduate Research Assistant, UPenn Modular Robotics Lab, Philadelphia, PA **Fall 2015 – Present**

- Fabricating reconfigurable robots for research under Dr. Mark Yim
- Current independent research project developing a low-cost modular robot, designing custom encoders, a module locking interface, and PCBs

Attitude Control Systems Engineering Intern, NASA Goddard, Greenbelt, MD **Summer 2017**

- Researched, designed and prototyped novel reaction wheels for CubeSat attitude control
- Addressed spaceflight hardware requirements alongside aerospace experts

Canoeing Guide, Northern Tier High Adventure, Ely, MN **Summer 2016**

- Led weeklong wilderness canoe trips in northern Minnesota and Canada

Education

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

Bachelor of Science in Engineering, Mechanical Engineering and Applied Mechanics

Expected **May 2019**

Master of Science in Engineering, Robotics

Expected **December 2019**

GPA: **3.97/4.00**

Study abroad at the **Swiss Federal Institute of Technology in Zurich (ETH)**

Fall 2017

Relevant Coursework: Robotics, Controls, Mechatronics, Computer Science, Product Design, Mechanical Engineering

Skills

Hardware: Precision machining (manual and CAM), PCB design and assembly, laser cutting, injection molding, GD&T, woodworking, 3D printing

Software: SolidWorks, KeyShot, Eagle, Microsoft Office, Latex, Adobe Illustrator, Adobe Photoshop

Languages: Java, C, Matlab, Python, HTML

Activities

Penn Band **2015 – Present**

UPenn Outdoors Club, trip leader **2015 – Present**

Penn Electric Racing **2016 – 2017**

DuPont FRC robotics team, head strategist, CAD designer **2013 – 2015**

Archmere FTC robotics team, President, PA and DE state finalists **2011 – 2015**

Eagle Scout Award **May 2014**