

ANDREW HAMROFF

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EDUCATION

University of Maryland, College Park – Honors College

A. James Clark School of Engineering
B.S. Mechanical Engineering
Minor: Sustainability

Expected May 2019

GPA: 3.78

University of Maryland, QUEST Honors Program

Aug. 2016-Present

- A multidisciplinary, hands-on program that focuses on quality management, process improvement, and systems design through semester long projects in cross-functional teams.

WORK EXPERIENCE

EN Engineering

Project Engineer Intern, Gas Distribution

May 2017-Aug. 2017

Glen Burnie, MD

- Assisted project engineers in day to day tasks with natural gas pipeline and facility design for Baltimore Gas and Electric and Washington Gas Light Company.
- Designed, processed and performed engineering feasibility review for gas conversions and abandonments.
- Increased productivity by 11% by creating abandonment info sheets and worked on data entry and permitting for pipeline jobs.

iMakr Store

Intern

Jan. 2016

New York, NY

- Performed maintenance on 3D printers, printed 3D objects for customers and helped sell accessories on the retail side.

TECHNICAL PROJECTS

Terps Racing

Jan. 2017-Present

- Construct the Baja SAE racecar to compete against other schools in international Baja SAE competitions.

Mechanical Design Suspension Sub-Team Leader

College Park, MD

- Increase the reliability and decrease the weight of the car by re-designing and optimizing the rear trailing arms using SolidWorks design and analysis and Design For Manufacturing techniques.
- Lead and manage a team of 7 members to re-design and optimize all of the suspension linkages.

Composites Sub-Team Member

College Park, MD

- Use carbon fiber, fiberglass and other composites to build the body panels and other lightweight, non-structural components of the frame to withstand the elements of the rough terrain.

TurBinD

Lead Mechanical Engineer

April 2016-Present

College Park, MD

- Constructed and designed an outdoor mobile charging station in a team using a vertical-axis turbine and wind power to generate electricity.
- Designed and rendered the vertical axis wind turbine blades using SolidWorks.
- Selected as a Do Good Challenge Semi-Finalist out of eighty-seven teams; received \$1500 total in funding.

LEADERSHIP

Design For America, University of Maryland Studio

Executive Director

July 2016-Aug. 2017

College Park, MD

- Founded and led the University of Maryland Design for America studio.
- Use a human centered design process to innovate products and services for social good in the community.

HONORS

- President's Scholarship
- Dean's List

Sept. 2015-Present

All Semesters

SKILLS

Software: SolidWorks, PTC Creo, Autodesk Inventor, Meshmixer, Word, Excel, PowerPoint, Assetsuite8, Smallworld/Atlas GIS, MATLAB (Exposure)

New Product Development: House of Quality, DMAIC/DMEDI, Multi-attribute Utility Analysis, Fishbone/Ishikawa Diagram, Why Ladder Diagram, Garvin's 8 Dimensions of Quality

Certified SolidWorks Associate (CSWA)

Jan. 2015

- Passed CSWA exam proving competency in 3D modeling and application of engineering principles.