ANDREW HAMROFF

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EDUCATION

University of Maryland, College Park – Honors College **Expected May 2019**
A. James Clark School of Engineering GPA: 3.78
B.S. Mechanical Engineering

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

Stanley Black and Decker **June 2018 -Aug. 2018**
Mechanical Engineering Intern, Portable Woodworking *Towson, MD*

- Mitigated vibration for the DeWALT Cordless Random Orbital Sander by analyzing components that contribute to vibration and resizing the counterweight system.
- Provided CAD designs and prototypes utilizing user input for a locking mechanism on an upcoming product.
- Performed compliance review and other testing for marketing claims on various woodworking tools.

EN Engineering **May 2017-Aug. 2017**
Project Engineer Intern, Gas Distribution *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.

TECHNICAL PROJECTS

Terps Racing **Jan. 2017-Present**
Mechanical Design Suspension Sub-Team Leader *College Park, MD*

- Re-designed and optimized the rear trailing arms using SolidWorks design and analysis and Design For Manufacturing techniques to save weight and increase the reliability of the car.
- Decreased the weight of the rear trailing arm by 23.8%.
- Lead and manage a team of 7 members to re-design and optimize all of the suspension linkages.

TurBinD **April 2016-Present**
Lead Mechanical Engineer *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 **July 2016-Aug. 2017**
Executive Director *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 **Sept. 2015-Present**
- Dean's List **All Semesters**

SKILLS

Software: SolidWorks, CATIA, 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.