**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.