**EDUCATION**

B.S. Mechanical Engineering Expected: May 2020

University of Maryland – College Park, MD GPA: 3.458

**HONORS AND AWARDS**

University of Maryland Deans List Fall 2017 – Present

New York State Advanced Regents Diploma June 2016

**WORK EXPERIENCE**

Novelis Oswego, NY

*Mechanical Engineer Intern* May 2018 – Aug. 2018

* Analyzed thermodynamics of a motor and electrical control room next to a melting furnace to determine the tonnage of cooling needed. Researched and purchased all the necessary equipment needed for water cooling. Determined electrical cost analysis and savings with the new equipment installed
* Designed and fabricated a structure to break falling ice, preventing damage to outdoor equipment
* Created and built safety features in the fabrication shop to prevent injuries (Fall & Laceration Prevention)

Eastcom Utility Contractors East Syracuse, NY

*Operator* May 2017 – Aug. 2017

* Interacted with customers to sell and provide products. Improving my communication skills
* Operated heavy machinery to load trucks and performed preventative maintenance

**RELATED PROJECTS**

Formula Car Project, *Formula SAE (Terps Racing)* College Park, MD

*Composites Team Member* Sept. 2017 – Present

* Created and helped design carbon fiber parts for the formula car. Parts include: wheel shells, front wing, rear wing, side wells, under tray
* Designed and built a large hot wire cutter to increase the efficiency of carbon parts production

CAD Design Project, *Intro to Computer Aided Design* College Park, MD  
*Project Leader* Spring 2018

* Created 50+ parts for a small scale 3D helicopter from a 2D side profile picture. Then assembled the helicopter and created an animation. Explored new features in CAD, not taught in class

Beam Project, *Mechanics II* College Park, MD

*Team Member* Fall 2017

* Developed a wooden beam with four other team members that could withstand 1750 lb. Then tested the beam to check our calculations and wrote a technical report

Over Sand Vehicle (OSV), *Intro to Engineering Design* College Park, MD

*Structure Sub-Team Leader* Spring 2017

* Designed, built, and tested a prototype OSV that autonomously navigated a course, measured the weight of a material, and distinguished the material between copper and steel
* Collaborated with six members in writing a technical report and presenting a final poster

**EXTRACURRICULAR ACTIVITIES**

UMD Intramural Sports (Flag Football & Soccer) Sept. 2016 – Present

Terps Racing Sept. 2017 – Present

Snowboarding & Skiing Nov. 2010 – Present

**SOFTWARE SKILLS & TRAINING**

-Autodesk Inventor, Creo Parametric 4.0, C++, Matlab, Microsoft Office (Word, Excel, PowerPoint), Solidworks

-Crane Rigging, Crane Safety, Hazardous Material, Hot Work, Laceration Prevention, Lockout Tagout Training

**LANGUAGES**

English (fluent), Spanish (literate), Italian (literate)