

REGINA WINGATE

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♦ *Striving to discover opportunities that encourage the fusion of passions for technical design and helping people* ♦

EDUCATION

University of Maryland, College Park (UMD)
B.S., Mechanical Engineering
Honors College, University Honors
QUEST Honors Program

Expected Graduation: May 2020
GPA: 3.712

- A multidisciplinary Honors program which provides hands-on experiences in the areas of teamwork, quality, project management, process improvement, and product design

WORK EXPERIENCE

Oceaneering Technologies | Hanover, MD
Mechanical Engineering Intern

May 2019 – August 2019

- Performed mathematical analyses in order to ensure the safety of large underwater system structures
- Designed technical configurations through use of SolidWorks to enhance structural support
- Tested for stress and deformation resulting from various loads through use of finite element analysis on SolidWorks

Leidos | Gaithersburg, MD
Systems Engineering Intern

May 2018 – August 2018

- Integrated personal PERL code with previous system code to import data from airports around the country into a centralized database
- Analyzed parameters of interest to determine the accuracy of the data being collected by the Performance Team

Neuromechanics Research Lab | College Park, MD
Graduate Assistant

May 2017 – May 2018

- Labeled Vicon 3D data and collected participant data to assist graduate students in their various research projects

PROJECT EXPERIENCE

Middle River Aircraft Systems (MRAS) | Baltimore, MD
Lean Six Sigma Technical Consultant

May 2019 – August 2019

- Underwent all stages of DMAIC Lean Six Sigma Process to improve the flow both in and out of the MRAS Composite Machining Center (CMC)
- Optimized parallel processing, scheduling efforts, and floor organization of CMC

The United States African Development Foundation | College Park, MD
External Consultant

October 2018 – December 2018

- Communicated with an entrepreneur in the Democratic Republic of Congo about his developing business in order to provide external insight
- Collaborated on a team of students to provide recommendations concerning initial business establishment and eventual business expansion

ENME272 Drone | College Park, MD

November 2017

- Designed various components of a camera drone that needed to be compatible with components created by team members
- Simulated movements and material selection through AutoCAD

Over Sand Vehicle | College Park, MD
Project Manager

August 2016 – December 2016

- Led a team of 5+ people that blueprinted and created an autonomous vehicle meant to navigate through a rough, sandy terrain in order to neutralize a polluted pool of water
- Directed all stages of the design process as well as organized meetings and materials

LEADERSHIP EXPERIENCE

Peer to Peer | *Co-Founder; Treasurer*

January 2018 – present

- Spur momentum for a new organization on campus which aims to connect UMD students with refugee youth

Pi Sigma Epsilon | *President (2019); Chairwoman of Professional Development (2018)*

January 2019 – present

- Develop both a professional and social culture that resonates with all 75+ members of the Professional Business Fraternity

Delta Phi Epsilon | *ANAD Chair (Spring 2019)*

January 2019 – May 2019

- Execute one event per day over a 7-day period to reach students across campus in hopes of gaining awareness for ANAD (The National Anorexia Nervosa and Associated Disorders Foundation)

University Honors | *HONR100 Section Leader*

August 2018 – present

Quest Corporate | *Team Lead (2019)*

September 2017 – present

American Society of Mechanical Engineers | *Director of Public Affairs (Spring 2019)*

August 2018 – present

SKILLS

SolidWorks, Autodesk Inventor, InDesign, Arduino, Processing, Matlab, Microsoft Office
Teamwork, Communication, Collaboration, Leadership, Organization, Empathy