

JACOB MITCHENER

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EDUCATION

University of Maryland, College Park

B.S. Mechanical Engineering 2019

GPA: 3.2

Virtus Living and Learning Community

Aug. 2015 - May 2019

Technical University of Denmark, Lyngby, Denmark

Participated in a study abroad program in Lyngby, Denmark, taking classes in mechanical engineering in English.

Jan. 2018 - May 2018

SKILLS

PROGRAMMING LANGUAGES: Java, Python, Matlab, HTML, CSS, C++ (Arduino)

MECHANICAL ENGINEERING SKILLS: PTC Creo Parametric, Autodesk Inventor, Solidworks, Siemens NX

TECHNICAL PROJECTS

Author Identification Machine Learning Project

- Developed a machine learning technology using Python and the NLTK library
- The program learns several well-known authors and is able to categorize texts based on the algorithm
- The program is also capable of gathering pertinent stylistic data

Sept. 2018 - Dec. 2018

Personal Website

- Produced a website using HTML and CSS
- Created a website containing all information about myself and my personal creative projects

Apr. 2018 - Apr. 2018

Alien Invasion Python Game

- Developed a game using Python and the Pygame library
- Using various functions from the Pygame library, users can control the ship and shoot and destroy enemies

Aug. 2017 - Dec. 2017

EMPLOYMENT

Route One Grills, Co-founder, College Park, MD

- Co-founded and operated a start-up as a part of an entrepreneurship course
- Took part in ideation, development of a business plan, and execution of the business
- Worked on a team of four people from varying disciplines

Oct. 2018 - Dec. 2018

Mount Saint Mary's University, Lifeguard, Swimming Instructor, Emmitsburg, MD

- Trained and certified in first aid, CPR, and water rescue
- Able to work individually and on a team to create a safe environment for patrons
- Required fast decision-making and assurance in those decisions
- Taught water safety and worked on confidence in the water and perfecting swimming strokes

May 2016 - Current

MECHANICAL ENGINEERING PROJECTS

Vane-Type Inertial Separator Modeling, Group Leader

- Collaborated with four other engineering students to develop a scaling system for a particle-fluid separation apparatus
- Modified Matlab scripts to develop a proper model for the system
- Developed a meeting schedule and organized all group meetings
- Oversaw and contributed to all aspects of the project

Aug. 2017 - Dec. 2017

Beam Project, Team Member

- Designed a beam and performed calculations to assess the stability of the beam with the goal of achieving a high strength to weight ratio
- Constructed the beam and made choices regarding materials and construction techniques
- Produced a detailed final report

Mar. 2017 - May 2017

ACTIVITIES

Content Creator for The Odyssey Online

Nov. 2017 - Oct. 2018

Amateur Filmmaker (Adobe Premiere Pro, Panasonic G7)

Jan. 2016 - Current

Intramural Soccer Captain

Jan. 2016 - Current