

Robert Hwaiting

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EDUCATION

University of Maryland, College Park, MD
B.S., Computer Engineering

- Honors College, University Honors

Expected May 2021
GPA: 3.55

SKILLS

Software: Java, C/C++, Assembly, Ruby, OCaml, Matlab, Eclipse, SWIFT, SQL, Linux/Unix
Engineering: Solidworks, Pro Engineer, Autodesk Inventor, Excel, Word, Outlook

TECHNICAL EXPERIENCE

NASA Goddard Space Flight Center

Greenbelt, MD

Software Development Intern

May 2019 – August 2019

- Analyzed trends in the Mars Rover's mass spectrometer data through test-driven software development strategies in Java
- Executed test procedures and documented results to ensure software system requirements are met
- Implemented mergesort and quicksort algorithms for processing large data sets
- Improved data processing tools in a command-line UNIX environment

Sikorsky Aircraft

West Palm Beach, FL

Flight Test Instrumentation Intern

May 2017 – August 2017

- Worked with a team of technicians to ensure accuracy of instrumentation measurements through pre-flight evaluations
- Troubleshoot imprecise data readings through sensor and remote calibrations

UMD Electronics Project

College Park, MD

Individual Project

April 2017

- 3D printed and programmed a 3-axis robotic arm to pick up and throw a ball
- Designed the arm using Solidworks and programmed an Arduino to control a motor, using a joystick

LEADERSHIP

Out in STEM, University of Maryland

College Park, MD

Chapter President

August 2019 – Present

- Lead local chapter of the national LGBT-affirming engineering society
- Organized and facilitated panels of Out Professionals from NASA Goddard, Accenture, and Northrop Grumman
- Tripled charter membership from six to eighteen in less than one year as president

UMD Terps Racing

College Park, MD

Instrumentation Lead

August 2018 – May 2019

- Coordinated a team of 8 students to instrument the chassis of a formula one race car
- Led communication across programmers and technicians to successfully install strain gauges, accelerometers, and pressure transducers under time and budget constraints

ACTIVITIES/AFFILIATIONS

Pi Tau Sigma, Mechanical Engineering Honor Society

Aug. 2019 – Present

Mighty Sound of Maryland, Marching Band

May 2018 – Present