

Matthew Moliassa

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EDUCATION

University of Michigan, Ann Arbor, MI

Expected April 2022

Bachelor of Science in Engineering; Computer Engineering; Cumulative GPA: 3.96/4.00

- Relevant Coursework: Data Structures and Algorithms, Programming and Introductory Data Structures, Discrete Math, Logic Design, Electronic Circuits; Fall 2020: Computer Organization, Machine Learning, Signals and Systems

EXPERIENCE

General Electric Aviation

Detroit, MI

Digital Technology Intern – Data Integration and Enterprise Software

May 2020 – Present

University of Michigan - Walter E. Lay Automotive Engineering Laboratory

Ann Arbor, MI

Research Assistant

May 2019 – March 2020

- Managed experimental setup for a multi-fuel military tactical generator research project
- Integrated several acquisition systems and sensors into a data-acquisition cart for flexible engine benchmarking
- Optimized test-cell infrastructure (water/exhaust piping) for multi-engine testing
- Modified a generator engine; used CAD to fabricate an extension piece to ensure reliable air temperature and pressure readings

Charter Township of Canton - Public Works

Canton, MI

Geographic Information Systems (GIS) Intern

May – July 2018

- Engaged in ArcGIS Pro software training that covered 2D/3D mapping, analytical tools, and data manipulation
- Completed a project that involved digitally mapping sewer features, reading and processing engineering plans, and utilizing ArcMap software to input utility data into a citywide geographic database
- Contributed 8000 data features to Canton's GIS database to help city workers with future positioning verification

Ford Motor Company

Dearborn, MI

Powertrain Supplier Technical Assistance (STA) Intern

June – August 2017

- Processed and compiled technical information on over 70 parts suppliers into a data map that is now standard reference for STA engineers and managers
- Assisted engineers in on-site supplier evaluations and meetings to ensure industry quality standards were met

University of Michigan – Dearborn

Dearborn, MI

Computer Science Research Mentorship

June – August 2017

- Learned about automotive cybersecurity research with computer engineering professor, explored exploitation software, utilized MATLAB basics, wrote summary paper on security risks of connected vehicles

PROJECTS

Recipe Generator Web Application

May 2020 – Present

- Developing a web application that takes in ingredient inputs and generates relevant recipes from a public API

Object-Retrieving Robot (ENGR 100 coursework)

January – April 2019

- Designed and constructed competition Robot to place items in an elevated goal; delivered design review presentations

Automated Door System (Engineering Capstone Project)

September 2017 – May 2018

- Developed an affordable automated door system for household use to relieve physical human mobility limitations
- Collaborated in team of four; responsible for entire engineering design process (hardware and software)

BSA Eagle Scout Project

May 2016 – January 2017

- Constructed high-quality furniture pieces for the benefit of women and children at a local domestic abuse shelter
- Independently managed 20+ workers in large-scale work sessions, organized fundraising efforts totaling \$800, collaborated with nonprofit executives and local businesses, oversaw and devised entire project process

SKILLS/TOOLS

Software Tools: C++, JavaScript, Verilog, MATLAB, Bootstrap, HTML/CSS, ArcMap, ArcGIS, Autodesk Inventor,

Language: German (Intermediate), Spanish (Basic)

HONORS/AWARDS

Ford Motor Company Blue Oval STEM Scholar

September 2018

BSA Eagle Scout Award

April 2017