

Fabian Fuxa

(787)-503-2543 – ffuxa@umich.edu – ffuxa.github.io
Mosher-Jordan Hall, 200 Observatory St., Ann Arbor, MI 48109

EDUCATION

University of Michigan

Bachelor of Science in Computer Science Engineering

GPA: 3.55/4.00

Relevant Courses: EECS 485: Web Databases & Information Systems, EECS 388: Intro to Computer Security

Ann Arbor, MI

April 2019

WORK EXPERIENCE

Treetown Tech LLC – Product Development

Web Development Intern

Ann Arbor, MI

May 2017 – Present

- One of two interns tasked with developing a web/mobile platform for the startup's first commercial product that will automate and facilitate the process of carbonating and serving beverages
- Responsible for front-end and REST API design, authentication and cross-platform compatibility of product

College of Engineering – Autograder Development Team

Web Developer

Ann Arbor, MI

May 2017 – Present

- Develop, alongside two other students, the handgrading interface for the upcoming College of Engineering's multi-course autograder, which will provide graders an intuitive platform for style-grading student code

ENGR 101 – Introduction to Computers and Programming

Instructional Assistant & Autograder Manager

Ann Arbor, MI

January 2017 – Present

- Maintain and improve the class "autograder" website, to which students upload code that is automatically checked for correctness, in order to facilitate grading and improve grade turnaround time
- Teach students basic programming concepts in C++ and MATLAB and help them debug code in office hours

Michigan Research Community (MRC)

Peer Research Advisor

Ann Arbor, MI

September 2016 – May 2017

- Conducted monthly seminars with 14 first-year students and a guest speaker about sustainable research to introduce incoming students to research methodology/practices, potential career paths and faculty members
- Assisted members in acquiring research projects and handled associated difficulties
- Reviewed resumes and provided interview tips to help first-years with their research position search

ENGR 100-600 – Underwater Vehicle Design

Technical Grader

Ann Arbor, MI

September 2016 – December 2016

- Graded technical portions of class work covering 3D modeling, fluid dynamics and technical documentation
- Developed organizational and communication skills while grading material for over 100 students

PROJECT EXPERIENCE

Robotics Programming and Optimization Lab

Study Abroad

Berlin, Germany

May 2016 – June 2016

- Developed a fastest line following algorithm for the M3pi robot using a PD controller with Nelder Mead optimization methods
- Created robot simulation using MATLAB for efficient testing of performance-affecting parameters
- Developed human Bluetooth control from computer using Python with pySerial and Pygame modules

Microplastics Research Lab

Research Assistant

Ann Arbor, MI

September 2015 – June 2016

- Designed a low-cost, self-cleaning model-scale microplastics filter for use in wastewater treatment plants
- Developed 3D model of testing rig for system analysis, used woodworking skills to build 2 main components

OTHER SKILLS & ACTIVITIES

Languages: Native proficiency in Spanish & Portuguese; entry-level German

Activities: "Groove High Energy Percussion" and "Michigan Electronic Dance Music Association" (MEDMA)