

Madeleine (Maddie) Wisinski

Dallas, TX | mwisinski@tulane.edu | (469) 260 - 7881 | www.wisinski.dev

EDUCATION

Tulane University, New Orleans, Louisiana – GPA: 3.689

Graduating Spring 2024

- Majors: Engineering Physics (ABET) and Computer Science with a certificate in Computational Engineering
- Extracurricular: Scribe of Tulane Theta Tau Engineering Fraternity and Networking Chair for Tulane SWE

PROJECTS

Mesh Network Measurement Nodes

August 2023 – Present

Team Leader & Lead Product Designer

- Lead a team of 6 to design, manufacture, and deploy a mesh network of 100 custom sensors to aid in reforestation efforts
- Develop a reusable and testable firmware codebase for managing power, measurements, and communication
- Design, iterate, and field test weatherproof sensor housings with emphasis on efficient manufacturing processes
- Awarded a \$4,000 in funding from Tulane University's Office of Academic Enrichment & Engineering Physics

Tulane Makerspace Machine Control Redesign

May 2022 – February 2023

- Created and actively maintain an open source, fullstack, NodeJS and ReactJS website from scratch for authenticating users on makerspace machinery
- Designed custom React components for intuitive use and cohesive design language

Current Water Sensors

September 2021 – January 2022

- Constructed a mesh network of water sensors to detect flooding for an engineering design group project
- Prototyped and iterated on custom housings and components for sustainability and sensitivity
- Designed ReactJS frontend with interactive map of campus flooding to report GIS data

WORK EXPERIENCE

Tulane MakerSpace

June 2022 – Present

Fabrication Technician

- Solve engineering problems with students, faculty, and staff and guarantee safe use of the MakerSpace
- Repair and maintain machines, such as the Bambu/Crealiti 3D printers and Epilog Laser Engravers
- Train and guide users on correct and safe use of Epilog Laser Engravers

Northwestern Mutual

June 2023 – August 2023

Software Engineer Intern

- Increased testing coverage through unit, functional, and regression tests
- Analyzed issues with teammates while learning new concepts and methods
- Coordinated with teammates in an Agile environment on a large-scale frontend ReactJS application
- Utilized Git Version Control effectively in a complex code environment

Tulane University

January 2023 – Present

Computing Concepts (MATLAB) Teaching Assistant

- Supported students through one-on-one learning for the basics of programming logic
- Assisted the professor by managing assignment grades and proctoring exams
- Led lab sessions allowing for students to work on homework and ask questions

Dickie Brennan's Palace Cafe

June 2022 – August 2022

Line Cook

- Prepared ingredients for use during service as well as maintained a station independently
- Followed all safety and health standards according to restaurant policy and procedures
- Trained coworkers on multiple stations and dishes

SKILLS

Programming: Java (5 years), Python, C, C++, Arduino, C#, JavaScript, NodeJS, ReactJS, CSS, HTML, MATLAB, Simulink Controls Systems, Git Version Control, Azure Web Apps, and OpenGL in C++

Machinery: 3D Printers, Epilog CO2 Laser Engraver, CNC Mill & Lathe, Waterjet, and Woodshop & Metalshop Tools

Programs: Autodesk Fusion 360 (4 years), Adobe Illustrator, and Microsoft Suite

ADDITIONAL INFO

Hobbies: Music, Guitar, Coding Personal Projects, Biking, Cooking, Baking, and Bread-making