

Daphne Agapiou

Current Address: 1028 Fuller Street Unit 101 Ann Arbor, MI 48104

Permanent Address: 2038 Wentworth Drive Rochester Hills, MI 48307

dagapiou@umich.edu | (248) 829-0347

Education

University of Michigan

Ann Arbor, MI

Bachelor of Science in Electrical Engineering

Expected Graduation: April 2024

- GPA: 3.979/4.0
- Awards/Honors: Angell Scholar, Dean's List: Fall 2020-Winter 2022. University Honors: Winter 2021, Fall 2021, Winter 2022
- Relevant Coursework: Signals and Systems, Probabilistic Methods in Engineering, Electronic Circuits, Engineering Electromagnetics, Programming and Data Structures, Physics (Electricity and Magnetism), Differential Equations, Linear Algebra

Engineering Experience

EECS 230 Grader

Aug. 2022-Present

- Grade exams and weekly homework assignments for the Electromagnetics I Electrical Engineering course at the University of Michigan to provide students feedback on their work within a 24 hour time frame

Stellantis

Auburn Hills, MI

Electrical Engineering Intern

May 2022-August 2022

- Validated electronic control units, sensors, and actuators connectivity for vehicle programs to allow for a faster testing process
- Checked communication between electrical components on CAN buses and supported troubleshooting test properties to document and fix hardware and model issues
- Utilized Stateflow in Simulink to program the Stop/Start Ignition Logic to meet vehicle function requirements to allow for greater testing abilities

Research on Electrical Characterization of beta-Gallium Oxide Based High Power Devices

Sept. 2021-May 2022

- Inspected surface morphology of gallium oxide based metal-oxide-semiconductor capacitor structure using atomic force microscopy in Lurie Nanofabrication Facility to aid in sample preparation
- Performed sample analysis of atomic force microscopy images by inspecting the surface roughness to determine if the gallium nitride sample could continue with bonding procedures
- Performed data analysis of gallium oxide based vertical MOSCAPs through use of Python programming to improve the dielectric quality for future high quality gallium oxide-based MOSFETs and MODFETs

Programs Using C++

Spring 2021

- Coded a program to help perform quick statistical analysis on data sets and designed an image processing program to aid in seam carving
- Developed a program using abstract data types to simulate a game of euchre with human and simple players
- Used knowledge of maps and binary search trees to create a program which helped classify and organize 2988+ Piazza Posts

Research on Developing a Diagnostic Test for Inherited Retinal Degeneration

Sept. 2020-Dec. 2020

- Researched and held meetings under the direction of an ophthalmologist from the Kellogg Eye Center to develop advanced testing for inherited retinal degeneration
- Created a 19 page professional report and conducted a 30 minute presentation to discuss the findings and present the cost analysis and prototype created in Fusion 360 for a diagnostic test using microarray testing

Leadership Experience

Tau Beta Pi: The Engineering Honor Society

Ann Arbor, MI

College of Engineering Career Fair Hospitality Chair

Fall 2021-Present

- Responsible for contacting catering businesses and reporting pricing, menu, and delivery details for Engineering Career Fair
- Organize and setup event space and hospitality stations for Career Fair to allow for smooth event processes

Brain Freeze

Rochester Hills, MI

Supervisor

August 2019-August 2022

- Trained new employees on how to prepare menu items and operate the cash register to allow for efficient business operations
- Managed opening and closing duties including cash register reconciliation to ensure cash balance accuracy

Activities

Women in Manufacturing, Member

October 2021-Present

Society of Women Engineers (SWE), Member

January 2021-Present

Society of Manufacturing Engineers, Member

May 2020-Present

Technical Skills

- Programming Language: C++, MATLAB, Simulink
- Software Applications: Vector Network Analyzer, LTspice, WaveForms, Autodesk AutoCAD, Autodesk Fusion 360, Microsoft Word, Excel, Powerpoint