

Maddie Hope

(470) 554-5604 • madison.hope@uga.edu • linkedin.com/in/maddiehope

EDUCATION

University of Georgia – Athens, GA

May 2025

Bachelor of Science in Electrical & Electronics Engineering

Certificate in Machine Informatics

College of Engineering Student Ambassador

Zell Miller Scholarship Recipient

RELEVANT WORK EXPERIENCE

Georgia Informatics Institute

January 2023 – Present

Student Fellow – Athens, GA

- Assist the instructor in preparing and delivering lessons and assignments to ~30 students.
- Provide 4+ hours a week of individual assistance to students to help them understand course material, including Python programming, Flask APIs, and machine learning topics.
- Grade assignments, quizzes and exams, and provide constructive feedback to students 6+ hours a week.

Athens Bulldogs Swim Club

May 2022 – Present

Lead Swim Coach – Athens, GA

- Confer with ~10 assistant coaches to boost performance of individual athletes by devising strategic personal training programs.
- Coordinate with parents and other resources to meet team needs involving equipment and competition arrangements.
- Mentor ~50 swimmers 9+ hours a week to foster a sense of healthy competition and confidence prior to focusing on skill-building.

Charthouse Data Management

May 2020 – August 2022

Intern – Canton, GA

- Shadowed 2 senior engineers and developed new product design schematics of PCBs in KiCad, gaining experience in schematic design.
- Assisted management with clerical duties in Excel to keep workflows running smoothly.
- Conducted cost-benefit analysis of various components to determine the most cost-efficient and high-quality parts for ordering.
- Designed and coordinated engineering tests and experiments on short range wireless and GPS technologies.

ORGANIZATIONS

College of Engineering Student Ambassadors, UGA – Athens, GA

May 2023 – Present

- Assist with college and university-sponsored special events and speak about academic programs and student opportunities in the college, 2+ each week.
- Attend bi-weekly meetings and engage in committee assignments to make a long-lasting impact on student life within the College of Engineering.

RELEVANT PROJECT EXPERIENCE

M5Stick Light Switch, *Programming for Electrical Engineers* – Athens, GA

February 2023 – March 2023

- Created a light switch using an M5Stick and MQTT protocol to connect a Python Tkinter GUI in communication with the controller, which involved programming in both Python and Arduino, and required knowledge of message topics, byte conversion, and conditional statements.

Mediapipe CV Workout Tracker, *Programming for Electrical Engineers* – Athens, GA

April 2023

- Developed a squat repetition counting program using the Mediapipe Pose module & a M5Stick to track the number of squat repetitions, which utilized computer vision to track the user's pose targets and display the data on-screen and BLE to communicate with the smartwatch.

SKILLS & INTERESTS

Technical Skills: Circuit Design, Oscilloscopes, Python, Java, C++, R, HTML, Matlab, KiCad, Flask, Arduino, GitHub, Excel.

Soft Skills: Leadership, Punctuality, Reliability, Attention to Detail, Communication.

Interests: Backpacking, Camping, Reading, Running.