

Maika Hirata

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Objective

Team-minded and tenacious Computer Engineering student with concentrations in software engineering and robotics seeking a software development internship for summer 2025. Experience with writing and debugging software for a variety of different projects such as programming for hardware in competitive robotics and animatronics.

Education

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Computer Engineering, GPA 3.00

August 2024 – Present
Expected Graduation, May 2027

The University of Georgia | Athens, GA

Transfer with 78 Credit Hours, GPA 3.92

August 2023 – May 2024

Skills

Programming: Java, Python, C, JavaScript, CSS, HTML (CIW Site Development Associate)

Hardware: Raspberry Pi, Arduino, Mbed, CTR Electronics

Software: OpenCV, GitHub, WordPress, Visual Studio Code, Microsoft Office tools

Professional Organizations: Georgia Tech Society of Women Engineers, Japanese Student Association

Languages: Japanese (native), English (fluent), French (beginner)

Projects

Robodawg | The University of Georgia Robotics Club

August 2023 – May 2024

Computer Vision Team Member

Team-based club project (computer vision, walking, mechanical, and electrical sub teams) to develop a walking robot dog

- Researched, programmed, and troubleshooted software for the robot to detect obstacles, stairs, and people with 3 other members using OpenCV A.I. body-tracking libraries on a Jetson Nano with a ZED camera.

Relevant Coursework

Digital System Design: Use of Boolean operations and combinational circuit techniques to design and simulate digital logic circuits.

Intro to Object-Oriented Programming: Using methods such as encapsulation, inheritance, polymorphism to write GUI programs.

Activities

FIRST Robotics Competition Team 1261 Robo Lions | Programming Lead

August 2022 – May 2023

- Mentored 20+ new members on the website and programming sub teams, on web development and Java respectively.
- Implemented closed-loop control in the form of Proportional-Integral-Derivative (PID), path planning, April Tags, and vision tracking software to continuously improve robot performance, leading to winning district event finalist 3 times and district event champion once.
- Presented the team's engineering design process and iterations made over the season for the robot in detail to judges at competition, winning 4 programming-related awards.

Girls Who Code/Code Ridge | Vice President

August 2021 – May 2023

- Researched local STEM events and contacted guest speakers each week to connect members to opportunities.
- Started up the first general CS club at the school with 25+ members, combining it with Girls Who Code to allow all students to learn how to code while maintaining a clear focus on the empowerment of girls in STEM.

CodeHers Collective | Web Development Content Specialist

May 2020 – August 2021

- Wrote lessons on GitHub, Java, and web development (HTML/CSS/JavaScript), and taught 150+ girls nationwide and worldwide over Zoom in regularly scheduled hour-long sessions.
- Designed 2 mascots, to represent the organization on social media and improve organization recognizability.

Technology Student Association

August 2019 – May 2023

- Designed, built, and programmed a story-based, 4ft tall animatronic running on an Arduino and utilizing pneumatics and servo motors in a team of 3, winning 1st place and 3rd place at the state level and placed in top 10 at the national level.
- Built a website catered to a specific competition theme using HTML, CSS, and JS with a focus on user-friendliness and engagement in a team, placing in top 10 at the state level for 3 years consecutively.