

Xiaoyou Wu

Atlanta, GA 30332 | (404) 449-4771 | xwu488@gatech.edu | Eligible for CPT/OPT

Objective

A driven leader in soft robotics and a passionate engineer in avionics, enjoys tackling real-life problems through mathematical modeling and embedded systems. Has over 80 hours of AP physics teaching experience, skilled at fostering mutual understanding and team collaboration.

Education

Georgia Institute of Technology | Atlanta, GA

August 2024 – Present

Bachelor of Science in Computer Engineering, GPA 4.00

Expected Graduation May 2026

Skills

Programming language: Java, C/C++, Python, MATLAB, JavaScript, system Verilog, Verilog

Web Development: React, MySQL, Git, HTML, CSS, Flask, Axios

Math: PID control, Multivariable Calculus, Differential Equation, Linear Algebra

Hardware: VESC, Arduino, PCB schematics/layout, serial communication protocols, circuit analysis, embedded system, power system design, SOLIDWORKS

Lab equipment: oscilloscope, waveform generator, multimeter, solder

Languages: English (Proficient), Chinese (Native)

Experience

Soft robotics Laboratory | Atlanta, GA

October 2024 – Present

Paid Research Assistant

Researched the behavior of spinning soft robots in viscous fluids through magnetic feedback controls for future medical usage

- Engineered feedback control systems composed of VESC motor, high-speed camera, and high-voltage coil.
- Pioneered the creation of a soft-robots physics model with MATLAB, verified with experimental data.

Projects

Flight Computer PCB design | Ramblin' Rocket Club

September 2024 – Present

Avionics Engineer

Designed and created a flight computer Linux PCB

- Orchestrated the schematics and routing of a PCB for the embedded Linux with STM32.
- Lead the team on high-speed layout design and signal integrity testing.

SpoilerAlert | WebDev Club

August 2024 – December 2024

Full stack developer

Led a team of 6 members in the development of a website designed for fridge usage tracking and recipe generation

- Directed a complete backend flask implementation integrating Gemini API for cooking recommendations.
- Collaborated on frontend React.js while integrating frontend and backend through Axios.