

EDUCATION

University of Georgia (UGA)	Athens, GA
<i>Bachelor of Science in Electrical Engineering</i>	Expected May 2029
Georgia Institute of Technology	Atlanta, GA
<i>Dual Enrollment (Coursework: Linear Algebra, Multivariable Calculus, Object-Oriented Programming)</i>	2024 – 2025

RESEARCH & ENGINEERING INVOLVEMENT

Research Assistant, UGA Multispectral Imagery Lab (MILab) (10 hrs/week)	November 2025 - Present
- Designed and implemented AI-based facial recognition system using a dataset of 15,235 images across 1,000 individual - Achieved 94.8% average accuracy using ArcFace with 1.6% false acceptance rate - Conduct validation, performance testing, and security/usability risk analysis - Collaborate with research team and prepare system for presentation and potential publication	
Embedded Systems & Microcontrollers Lead, UGA Intelligent Power Electronics & Electric Machine Lab (5 hrs/week)	August 2026 - Present
- Selected to lead the embedded systems group for a 7-team, ~70-applicant undergraduate electric vehicle project under Prof. Jin Ye - Lead development of vehicle firmware and embedded integration involving microcontrollers, GPIO, PWM, UART, I2C, motor control, and sensor interfaces - Coordinate task distribution, technical milestones, and development timeline for the embedded systems team - Guide integration of motor, sensor, and communication logic through iterative design, build, test, troubleshoot, and validation cycles	
Research Development Team – Embedded Systems, UGA IEEE MicroMouse (5 hrs/week)	August 2026 - Present
- Selected for the Research & Development Embedded Systems team through a resume review and technical interview process - Develop foundational STM32 firmware skills using C/C++, STM32 HAL, and VS Code for an autonomous maze-solving robot - Work with STM32F103C8 microcontrollers, communication protocols, sensor data acquisition, and embedded control architecture - Explore firmware and embedded-system improvements that may support future competition versions of the MicroMouse robot	
Electronics Engineer, UGA Small Satellite Research Laboratory (SSRL) (10 hrs/week)	January 2026 - May 2026
- Selected to contribute to the Multiview Onboard Computational Imager (6U CubeSat) under the AFRL-funded University Nanosatellite Program - Support design, fabrication, and validation of custom flight PCBs for onboard satellite subsystems - Collaborate across electrical, mechanical, and software teams to ensure subsystem compatibility and mission readiness	

WORK EXPERIENCE

Panera Bread	Marietta, GA
<i>Café Team Member – Back of House</i> (30-40 hrs/week)	May 2026 - August 2026
- Prepared and organized dine-in, takeout, and delivery orders with quality checks to maintain accurate order handoff - Complete morning opening and closing procedures with back-of-house operations, preparing sandwiches, salads, soups, and assembled customer orders - Closed production areas by breaking down and cleaning the line, washing dishes, restocking supplies, and preparing stations for the following shift	
UGA Oglethorpe Dining	Athens, GA
<i>Student Employee</i> (18 hrs/week)	August 2025 – May 2026
Support second highest volume campus dining operations across food preparation, service, and closing procedures	

- Balance 18 hour work commitment alongside engineering coursework, research, and lab involvement

The Language Nook

Athens, GA

Mandarin Language Instructor (3-5 hrs/week)

Spring 2026 – Present

- Lead Mandarin immersion sessions for toddlers through structured play, storytelling, and music
- Prepare supplemental materials including illustrated learning booklets and recorded language content
- Contribute to curriculum input and support early-stage education startup growth

CO-OPS/INTERNSHIPS

Winmate Communication US Inc.

Smyrna, GA

AI & IT Project Management Intern (~16 hrs/week)

May 2026 – August 2026

- Reviewed product lines, technical use cases, and sales playbooks to better connect rugged computing products with industrial, AI, robotics, and automation applications
- Completed hands-on training in product inspection, testing, assembly, operating-system updates, warehouse operations, ERP systems, CRM processes, and product roadmaps
- Supported digitalization of technical, marketing, and service documentation for internal and customer-facing use
- Prepared written project and training summaries to document findings, recommendations, and technical understanding

LEADERSHIP & COMMUNITY INVOLVEMENT

Chief Engineer, Walton Robotics 2974 FIRST Robotics Competition (26+ hrs/week peak season)

2022 – 2025

- Led 13 varsity and 7 junior engineering members within a 40+ member competitive robotics program
- Directed design and manufacturing of shooter and telescoping arm subsystems contributing to World Championship qualification, District Championship with 60-6-0 official season; ranked #2 in Peachtree District (347 points)
- Organized STEM camps and outreach events serving 50+ elementary and middle school students per session
- Designed and assembled custom competition “super pit” to improve workspace efficiency and tool accessibility
- Published technical build documentation on Chief Delphi to support and mentor global robotics teams

Engineering Mentor, FIRST Tech Challenge (FTC) (6 hrs/week)

2023

- Mentored two middle school teams (20 students total) in mechanical design and introductory Java programming
- Led weekly after-school build sessions and guided first-year teams through robot design process
- Assisted with fundraising efforts to secure equipment and operational resources
- Helped teams advance toward state qualification during inaugural program year

Volunteer Lead, Monte Jade SE Association (1 hrs/week avg; 12+ hrs during events)

2022 – Present

- Organized education and entrepreneurship events serving 200+ participants with 5 invited speakers
- Managed logistics, speaker coordination, and event execution for seminars and community programs
- Maintained website (300+ monthly viewers) and produced 60+ page annual yearbook
- Published 11 biweekly educational videos reaching peak engagement of 860 views/month

Co-Founder & President, CAD Team (4 hrs/week)

2023 – 2025

- Founded 15 member engineering design organization to teach advanced CAD and fabrication
- Led 3 technical workshops on 3D modeling and prototyping
- Mentored members in developing engineering portfolios and independent projects

PROJECTS

Plastic Bottle to 3D Filament Recycling Machine

Personal Project

2023 – Present

- Independently designed mechanical–electrical extrusion system to convert recycled bottles into 3D printer filament
- Self-funded \$300+ prototype; designed custom PCB and temperature regulation control system
- Completed mechanical assembly; iterating PCB and software integration
- Plan to donate filament to local schools and libraries to expand STEM accessibility

HONORS AND AWARDS

Peachtree District Championship Winner (FRC Robotics)
Young Achiever Award Finals Winner (Monte Jade)
Gold President Volunteer Service Award

April 2024
December 2024
2023 & 2024

SKILLS

Engineering: Circuit Analysis, Digital Electronics, PCB Prototyping, Hardware Troubleshooting, System Testing

Design & Fabrication: Fusion 360, AutoCAD, Soldering, 3D Printing, Milling, Drill Press, Band Saw

Programming: Java, HTML, Python

Research: Computer Vision, Model Evaluation, Performance Testing, Technical Documentation

Languages: Mandarin Chinese (Native), English (Fluent)