

EDUCATION

Georgia Institute of Technology , Atlanta, GA	August 2019 – December 2023
Undergraduate - Bachelor of Science in Electrical Engineering, Minor in Robotics, GPA 3.61/4.0	(Graduated December 2022)
Graduate - Master of Science in Electrical and Computer Engineering, GPA 3.71/4.0	(Graduated December 2023)

SKILLS

Tools:	Altium, Eagle, Arduino, COMSOL, Quartus, Mbed, Cadence, Git
Programming:	C/C++, Java, Python, MATLAB, VHDL, Assembly, SCPI
Concepts:	Embedded systems/software, circuit design/analysis, PCB design/routing, RF design, CAD software, power systems, communication protocols, radar systems, ADC design, digital system design, MEMS design, microcontrollers, 3D printing
Athletics:	Rock climbing, archery, basketball, soccer

EXPERIENCE

Boeing , Everett, WA	April 2024 – Present
Cabin Systems Design Engineer	
<ul style="list-style-type: none">Lead the cabin systems electrical design of 6 new 787 model airplane configurations that requires coordination between over 10 teams, suppliers, and customersCreated over 50 functional schematics and wiring diagrams for electrical systems that account for circuit protection, signal integrity, electromagnetic interference, power quality, and voltage dropDirect the integration, testing, and certification of Bluetooth for all 787 model airplanes while creating requirements to mitigate cybersecurity risksManage the development and wrote new build test procedures for 6 new supplier 5G cellular modems and video control stationsDrove improvements to new 10G backbone wiring by adding feedback protections for discrete signalsTroubleshoot 9 production airplanes for issues with database software and hardware	
Atlanta Micro , Peachtree Corners, GA	May 2023 – December 2023
RF Engineering Intern	
<ul style="list-style-type: none">Conducted a package/bond-wire study to determine the optimal packaging configuration by collecting through die and package s-parameter data and creating lossy package/bond-wire models based on the difference in their s-parametersCreated 4 new module boards with coplanar waveguide and microstrip transmission lines, each with a ferrite and conical inductor designs for their bias teesCreated a highly customizable GUI using Python and SCPI communication that allows engineers to automatically test and collect data on a new tester that will save hundreds of hours in manual testing timeDesigned custom RF probe boards for 3-port devices allowing for every termination scheme for 2 probe setups	
Texas Instruments , Dallas, TX	May 2022 – August 2022
Product Engineering Intern	
<ul style="list-style-type: none">Created a script to automate the creation of a test program that increased the efficiency of testing across the companyCompleted 12 customer sample requests which included retrieving inventory of specific units, programming and testing the units, and handling shipment to customersSuccessfully debugged a thermal shutdown failure on an in-development chip that kept the development schedule on trackSuccessfully tested and debugged 20+ printed circuit boards used for stress testing new products	
Siemens – Russelectric , Hingham, MA	May 2021 – August 2021
Engineering Development Program Intern	
<ul style="list-style-type: none">Designed subsystem prototypes for a lower cost automatic transfer switch (ATS) controllerTested/debugged ATS prototypes and updated schematics to improve performance stabilityReverse-engineered currently outsourced ATS controller to generate a price estimate and create documentationDeveloped an automated bill of materials and risk analysis template for electrical components with other internsLearned Russelectric Microgrid product and gave sales presentations to potential customers	

CLUBS AND LEADERSHIP

Georgia Institute of Technology: RoboJackets	April 2020 – April 2021
RoboRacing Electrical Lead	
RoboRacing is a high-speed autonomous car competition team	
<ul style="list-style-type: none">Directed decisions on the electric system of two vehiclesManaged 15+ electrical team members, organized 5 projects, and handled parts purchasing for those projectsDesigned, routed, and programmed 2 embedded PCBs that controlled drive and brake functions of the vehicleLed design reviews for electrical team projectsPromoted cross-functional team participation to achieve goals through weekly meetings between sub-team leads	
Electrical Training Lead	April 2021 – April 2022
<ul style="list-style-type: none">Coordinated the creation of a 6-week training curriculum for new electrical team membersCreated 3 lessons of lectures and labs on using PCB design software, electrical basics, and prototypingRan a training program for 50+ new members	
The Hive at Georgia Tech	January 2020 – December 2023
Peer Instructor	
<ul style="list-style-type: none">Received training and assist end-users with PCB fabrication tools (LPKF ProtoMat, LPKF ProtoLaser, LPKF Contac S4), laser cutting, 3d-printing, benchtop equipment, and soldering	

RESEARCH AND PROJECTS

VGlass - Senior Design Project	August 2022 – December 2022
<ul style="list-style-type: none">Created a wearable headset that aids the visually impaired with reading text and obstacle avoidanceConducted market research and customer discovery to determine the desired functionality of the productManaged the team using a detailed project plan and Gantt chartDesigned the hardware system with a custom PCB, Raspberry Pi, camera, speaker, haptic motors, and time of flight sensors	
Junior Design Project	January 2022 – May 2022
<ul style="list-style-type: none">Created an animatronic character with multiple movement modes, a complex control system, and text-to-speech capabilityDesigned the control system with a custom PCB, servos, switches, speakers, and a power system with server communication capability	