

Elijah Parker

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Projects

Distributed Agricultural Monitoring Network (DNAM)

July 2023 – May 2024

- Auburn University's first international collaboration for a senior design project
- Worked with electrical engineering students from THWS in Germany to design a LoRaWAN based agricultural monitoring system
- Managed project budgets, Bill of Materials, travel, weekly meetings, status reports, Gantt charts, and presentations
- Developed Arduino code, installed gateway on campus, deployed Django website, demonstrated successful project to faculty and students

3D-Printed Prosthetic Chicken Legs(probably no link but I could? [🔗](#))

2022 - Present

- Designed custom 3D printable prosthetic legs for rescued chickens at animal sanctuaries in Toronto, Florida, and Michigan
- I worked with people on a cool project and I'm da bomb but idk how to put that on my resume

JeopardyPi: Raspberry Pi Trivia System

NOT Ongoing

- Developed fully functional, Python-based Jeopardy game to run on Raspberry Pi including PCB design for buzzers and support for a game host

Church Website

NOT Ongoing

- Developed a website for my church for better coordination (idek what to write. Should this even go here???)

Experience

Wireless Communications Engineer (Active TS Clearance)

Laurel, MD

Johns Hopkins University Applied Physics Laboratory

June 2024 – Present

- Research and development in advanced wireless communications systems

Undergraduate AI Researcher

Auburn, AL

Open-Ended Reasoning and Knowledge Acquisition Lab

October 2023 – April 2024

- Implemented MFCC techniques for speech recognition on EPIC-KITCHENS-100 dataset to improve multi-modal video understanding

Student Employee

Auburn, AL

Alabama Micro/Nano Fabrication Lab

Feb 2023 – May 2024

- Assisted PhD students with chemical processes for microelectronics fabrication
- Designed and manufactured custom aluminum parts using Fusion 360 and Haas CNC
- Maintained Python code to automate chemical inventory tracking
- Cleaned, organized, and maintained cleanrooms, chemical labs, and specialized equipment

Student Employee

Auburn, AL

Auburn University ECE Department

Oct 2019 – May 2024

- Supported students and faculty with senior design projects
- Organized, cleaned, and maintained electronics and equipment

Process Engineering Co-Op

Auburn, AL

SiO2 Medical Products

Spring 2022 & Fall 2022

- Operated, validated, and debugged manufacturing machinery
- Collaborated with cross-functional teams to ensure quality and documentation

Computer Engineering Co-Op

Technology Service Corporation

Huntsville, AL

Jan – May 2021

- Developed Python scripts to streamline product testing
- Tested and validated system performance

Honors Calculus II Tutor

Auburn University

Auburn, AL

Jan – May 2020

- Tutored students individually to help further their understanding of topics covered in Honors Calculus II

Education

Johns Hopkins University

MS in Electrical and Computer Engineering

August 2024 – Present

- GPA: 4.0/4.0
- **Coursework:** Algorithms, Digital Signal Processing, L^AT_EX

Auburn University

BS in Electrical Engineering (*Summa Cum Laude*)

BS in Computer Engineering (*Summa Cum Laude*)

August 2019 – May 2024

- GPA: 4.0/4.0
- **Coursework:** Computer Architecture, Electromagnetism, Algorithms, Random Signals and Systems, Digital Electronics, Analog Electronics, Control Systems, Electrical Power Engineering, Discrete Structures

Skills

Languages: Python, C, C++, Java, Verilog, Matlab

Tools: Git/GitHub, LTspice, Fusion 360, Haas CNC

Hardware: Arduino, Raspberry Pi, PCB design, 3D printing **I should probably say something project management-y here**

Activities & Awards

- This whole section should probably just be scrapped?
- Song Director at Mt. Vernon Baptist Church
- **Awards:**
 - Auburn University Computer Engineering Student of the Year
 - Auburn University 2023-2024 Electrical and Computer Engineering Academic Achievement Award
 - ECE Capstone Showcase Outstanding Project Award (DNAM)