Elijah Parker

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EDUCATION

Auburn University
August 2019 - May 2024

Bachelor of Electrical Engineering – Summa Cum Laude
Bachelor of Computer Engineering – Summa Cum Laude
GPA: 4.0/4.0

EXPERIENCE

Johns Hopkins University Applied Physics Laboratory
Wireless Cyber Capabilities Engineer | June 2024 – Present

➢ That's classified.

Open-Ended Reasoning and Knowledge Acquisition Lab
Undergraduate AI Researcher | October 2023 – April 2024

➢ Implementing MFCC technique for speech recognition to extract audio features from the EPIC-KITCHENS-100 dataset for multi-modal understanding in ego-centric videos

Microelectronics Fabrication Lab, Auburn
Student Employee February 2023 – May 2024

➢ Aid electrical engineering PhD students with chemical processes related to microelectronics fabrication
➢ Design and manufacture custom aluminum parts with Fusion 360 and Haas CNC
➢ Maintain Python code to streamline process of taking inventory of chemicals
➢ Clean, organize, and maintain cleanrooms, chemical labs, and equipment

Auburn University, Broun Hall
Student Employee | October 2019 – May 2024

➢ Aid students and faculty throughout Electrical and Computer Engineering Department especially concerning production of senior design projects
➢ Organize, clean, and maintain electronics and equipment

SiO2 Medical Products, Auburn
Process Engineering Co-Op | Spring 2022 and Fall 2022

➢ Aided process engineers by operating, validating, and debugging manufacturing machinery
➢ Coordinated with other departments to ensure quality products and thorough documentation

Technology Service Corporation
Computer Engineering Co-Op | January – May 2021

➢ Developed Python code to streamline testing of various products
➢ Tested products to ensure quality performance

Auburn University
Honors Calculus II Tutor | January – May 2020

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

SKILLS

Python, Java, Matlab, Verilog, C, and C++; Git and GitHub; LTspice; Fusion 360; Electronics such as Arduino, Raspberry Pi, and 3D printers; Microsoft Excel, Access,

ACTIVITIES

- Developed an IOT agricultural monitor named the Distributed Agricultural Monitoring Network using LoRaWAN
- Developed Python-based Jeopardy game to run on Raspberry Pi including PCB design for buzzers
- Designed a 3D printed, prosthetic leg for a chicken at Browns' Microsanctuary
- Eta Kappa Nu, Xi Chapter Member
- IEEE Member
- Song Director and Website Designer for Mt. Vernon Baptist Church
- Volunteer in multiple capacities for Operation Christmas Child

AWARDS

- Auburn University Computer Engineering Student of the Year
- ECE Capstone Showcase Outstanding Project Award for the Distributed Agricultural Monitoring Network
- Third place at Samuel Ginn College of Engineering Capstone Showcase for the Distributed Agricultural Monitoring Network
- Auburn University 2023-2024 Electrical and Computer Engineering Academic Achievement Award
- Auburn University Samuel Ginn College of

Word, and PowerPoint

- Engineering Dean's List
  Fall 2019 – Spring 2024
- Salutatorian for Sand Rock
  High School Class of 2019