Elijah Parker

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Impact Statement

Currently I'm a wireless communications engineer at the Johns Hopkins Applied Physics Laboratory where I speialize in cellular communications while I work on my master's part time. In my free time, I'm usually 3D printing prosthetic chicken legs, working on an electronics project, reading, playing video games, or roughhousing my dog, Juneau.
I first heard about Effective Altruism in a TED Talk by Peter Singer, and I immediately knew that this was the kind of person I wanted to be. I went vegan, changed my donations to highly effective charities, and began reading all of the typical EA books. In July 2025, I donated one of my kidneys to a stranger. I've led many small scale projects over the past few years, and I'm ready to take my skills to the next level to do more good with my career. I hope this CV reflects my competence and determination. IDK WHAT TO WRITE HERE OR HOW TO END THIS I KNOW THIS SOUNDS BAD BUT IDK HOW TO FIX IT.

Projects

Distributed Agricultural Monitoring Network(read more on my blog!) *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(read more on my blog!) *2022 - Present*

- I worked with animal sanctuaries in Toronto, Florida, and Michigan to design custom, 3D printable prosthetic legs for chicken amputees
- I pioneered a design approach in which a smartphone is used to create a 3D scan of the remaining "nub" of the amputated leg which is then used to create a custom silicone part that mates the 3D printed plastic with the remaining leg

JeopardyPi: Raspberry Pi Trivia System(read more on my blog!) *NOT Ongoing*

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

Experience

Wireless Communications Engineer (Active TS Clearance) *Laurel, MD*
Johns Hopkins University Applied Physics Laboratory *June 2024 – Present*

- Worked on multiple collaborative, technical projects primarily as a software developer
- Given successful presentations to branch leadership and sponsors
- Collaborated with other members of the Social Committee to plan events and outings
- Idk what the hell to put here. Do I just put a giant list of technologies I use?
- Familiarity with:
  - 4G and 5G cellular communications, srsRAN, OpenVPN, C++, Python, wireless and wired networks, REST APIs, RF Hardware

Undergraduate AI Researcher *Auburn, AL*
Open-Ended Reasoning and Knowledge Acquisition Lab *Oct 2023 – Apr 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*

- Aided students and faculty throughout Electrical and Computer Engineering Department especially concerning production of senior design projects
- Organized, cleaned, and maintained electronics and equipment

Process Engineering Co-Op *Auburn, AL*
SiO2 Medical Products *Jan 2022 - Jan 2023*

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

Computer Engineering Co-Op *Huntsville, AL*
Technology Service Corporation *Jan – May 2021*

- Developed Python scripts to streamline product testing
- Tested products to ensure quality performance

Honors Calculus II Tutor *Auburn, AL*
Auburn University *Jan – May 2020*

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

Education

Johns Hopkins University *August 2024 – Present*
MS in Electrical and Computer Engineering

- GPA: 4.0/4.0
- **Coursework:** Algorithms, Digital Signal Processing, LaTeX

Auburn University *August 2019 – May 2024*
BS in Electrical Engineering (Summa Cum Laude)
BS in Computer Engineering (Summa Cum Laude)

- 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++, Verilog, Matlab
Tools: Git/GitHub, LTspice, Fusion 360, Haas CNC, Linux, Microsoft Office
Hardware: Arduino, Raspberry Pi, PCB design, 3D printing
Soft skills: Time management, teamwork, work ethic, dependability, critical thinking, leadership, presentation skills, learning agility

Activities & Awards

- I donated my right kidney to a stranger in July 2025
- I donate 10% of my income to the Effective Altruism Animal Welfare Fund and $30 per month to GiveWell's All Grants Fund
- I volunteer at local animal sanctuaries as part of the Veg Society of DC
- Song Director at Mt. Vernon Baptist Church
- Developed a website for my church for better coordination and ease of access for visitors
- **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)