

# MODUPE AWOJUYIGBE

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## EDUCATION

### University of Texas San Antonio

- Bachelor of Science in **Computer Engineering** – GPA: **3.76/4.0**

San Antonio, TX

May 2027(Expected)

**Relevant Coursework:** Digital Logic Design, Network Theory, Applied Engineering Analysis II, Micro Computer Systems

## PROFESSIONAL EXPERIENCE

### University of Texas at San Antonio

Teaching Assistant / Peer coach, San Antonio, TX

August 2024 – Present

- Provided technical mentorship to over **50+** students in foundational engineering and STEM courses.
- Delivered personalized tutoring sessions for students enrolled in **Calculus, Physics, and Programming** courses, emphasizing practical applications in engineering concepts.
- Created supplementary learning materials to illustrate real-world engineering applications of theoretical concepts.
- Overall increased the number of returning students by **60%** due to learnings from my teachings.

### University of Texas at San Antonio

Summer Resident Assistant, San Antonio, TX

May 2024 – August 2024

- Supervised a community of **150+** residents, ensuring a safe and inclusive living environment
- Collaborated with a team of **8** Resident Assistants to plan and execute orientation events, resulting in a **30%** increase in first-year student satisfaction.
- Developed and implemented protocols for weekly safety inspections across **5** residence halls, ensuring compliance with university regulations.
- Created comprehensive training materials and mentored **5** incoming Resident Assistants, preparing them for success in the upcoming semester.

### Code Path Web Development

February 2024 – August 2024

Web Developer, San Francisco, CA

- Engineered a fully functional fashion web application utilizing **HTML, CSS, JavaScript, and Flexbox**, which was used by over **100+** users at launch
- Implemented backend functionality using **Firebase Authentication, Storage, and Cloud Firestore** for database management, enhancing data retrieval efficiency by **40%**.
- Collaborated effectively with peers from cross-functional teams and mentors to troubleshoot issues and ultimately deliver a high-quality application.
- Participated in technical code reviews with industry professionals, refining technical skills and gaining insights into optimal application architecture and user experience design.

## SKILLS & CERTIFICATIONS

- **Technical Skills:** C, C++, Python, JavaScript, MATLAB, Firebase, Git.
- **Business skills:** Technical Communication, Cross-functional Team Collaboration, Project Management, Mentorship.
- **Organizations:** Society of Women Engineers (SWE), National Society of Black Engineers (NSBE), Institute of Electrical and Electronics Engineers (IEEE), Girls Who Code (GWC), Rewriting the Code (RWC).
- **Awards:** President's List, Dean's List, Women in Toys Scholar, Klesse College Scholar.

## TECHNICAL PROJECTS

### Autonomous Line Tracking Vehicle

Fall 2024

- Engineered a fully autonomous mini vehicle utilizing infrared sensors and C++ programming to enable precise path detection and following capabilities.
- Designed and implemented a control system architecture integrating microcontrollers with motor drivers to achieve responsive navigation with **<2ms** latency.
- Documented comprehensive technical specifications, system architecture, and implementation methodology for future reference and knowledge sharing.