MODUPE AWOJUYIGBE

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EDUCATION

University of Texas San Antonio — *San Antonio, TX*
· Bachelor of Science in **Computer Engineering** – GPA: **3.7/4.0** — *May 2027(Expected)*
Relevant Coursework: Digital Logic Design, Network Theory, Applied Engineering Analysis II, Micro Computer Systems

PROFESSIONAL EXERIENCE

EDP Renewables — **May 2025 – Present**
Engineering Intern, Houston TX

· Automated **SCADA** status monitoring across wind and solar fleets using **Python** with **Pandas, BeautifulSoup,** and **Selenium**, enhancing real-time data visibility and enabling faster issue detection by **80%**.
· Validated telemetry data and tested control systems for **Renewable Energy Management System (REMS)** projects, reducing errors by **70%**, which improved system accuracy and operational reliability.
· Developed a **Flag list** and completed consistent tag mapping using the **DNP3 protocol**, improving communication accuracy.

University of Texas at San Antonio — **August 2024 – Present**
Teaching Assistant / Peer Educator, San Antonio, TX

· 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.

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.

SKILLS & CERTIFICATIONS

· **Technical Skills:** C, C++, Python, JavaScript, MATLAB, Arduino, Multism, CAD, Firebase, Automation Scripting, Structured Text, File I/O, DNP3.
· **Business skills:** Technical Communication, Cross-functional Team Collaboration, Project Management, Mentorship.
· **Organizations:** National Society of Black Engineers (NSBE), Society of Women Engineers (SWE), 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.

LEADERSHIP

UTSA National Society of Black Engineers (NSBE) — **May 2025 – Present**
Executive Board - Senator
· Represent the UTSA chapter at regional and national meetings, advocating for student needs and initiatives.
· Collaborate with the executive board to enhance member engagement and streamline communication across committees.
· Help coordinate outreach, programming, and professional development events to increase participation and impact.

TECHNICAL PROJECTS

Real-Time Voice Captioning and Translation System — **Spring 2025**
· Designed a real-time captioning and translation system using a **PIC16F1829 microcontroller** and **Python** serial communication.
· Developed a speech-to-text pipeline in **Python** to transcribe audio and send formatted captions to an **LCD** via the PIC.
· Implemented multilingual translation support using **Google's API,** enabling conversion between **100**+ languages.
· Pivoted from an initial laser mic concept to a more feasible, impactful solution focused on accessibility and usability.

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.