

FAWAZ O. ABDULWAHAB

fawazabdulwahab@gmail.com | (832) - 651 - 4725 | Houston, TX | US. Citizen | Junior | fawazab.com

Objective

To secure an internship opportunity within a renowned organization to further enhance my learnings, knowledge, and skills.

Education

Prairie View A&M University

Expected Graduation: May 2026

Bachelor of Science in Computer Engineering

GPA: 3.2

Minor in Supply Chain Management

Technical Skills

C++ • Embedded C • C# • CSS • Python • MATLAB • JavaScript • SQL • HTML • Simulink • CANape • CANSniff • VirtualBox • Verilog • Agile • Multilingual • Microsoft Office Suite • Adobe Suite • Linux • Microsoft Azure • Google Cloud Platform

Experience

PVAMU Football Equipment Manager

October 2022 - Present

Prairie View A&M University, *Prairie View, TX*

- Enhanced practice efficiency by **20%** through coaching support and inventory management.
- Implemented team/position-based equipment organization, boosting accessibility by **30%**.
- Assisted in the transportation and implementation of athletics equipment at athletics competitions.

Embedded Systems Intern

May 2024 – August 2024

John Deere, *Waterloo, IA*

- Implemented real-time data acquisition and processing algorithms, optimizing system response time by **20%**.
- Utilized Simulink for modeling, simulation, and testing of control systems, reducing development time by **30%**.
- Collaborated with cross-functional teams to integrate new features into current control units, refining system functionality.
- Implemented communication protocols (e.g., CAN, LIN) in embedded systems, improving interoperability and data exchange efficiency.

Supply Chain Intern

June 2022 - August 2022

Hamex Investments Limited, *Lagos, Nigeria*

- Improved supply chain process, increasing product distribution speed by **20%** and reducing outgoing costs.
- Implemented process improvements to mitigate risks, enhance control, and elevate customer satisfaction by **10%**.
- Collaborated with cross-functional teams to develop and launch a new inventory management system, improving stock accuracy by **30%**.

Projects

Lane Detection with Computer Vision

October 2024

- Applied a Hough Line Transform Algorithm for accurate lane detection, optimizing parameters to reduce false positives.
- Implemented Canny Edge Detection with optimized thresholds for precise edge detection and noise reduction.
- Optimized the image processing pipeline with Gaussian blur and Region of Interest (ROI) masking to enhance edge detection efficiency by **20%**.
- Processed video data to validate & improve system accuracy under various road and lighting conditions by **30%**.

Embedded Transmission System Control

May 2024

- Developed a real-time motor control system using Arduino, integrating serial communication, CAN bus, and sensor inputs.
- Optimized message parsing and validation, improving data extraction speeds by **30%**.
- Utilized an encoder to improve the precision of motor speed and position measurements, enhancing control accuracy.
- Designed and implemented a graphical user interface (GUI) for real-time motor control, integrating a rotary encoder for precise RPM calculation, improving motor control accuracy by **35%**.

Leadership

PVAMU ASA

Parliamentarian

July 2024 - Present

- Advised the executive board on governance issues and parliamentary rules, enhancing the effectiveness of decision-making.
- Ensured adherence to parliamentary procedures during meetings, facilitating orderly and productive discussions.
- Coordinated with club leaders to plan and execute events, increasing member engagement and participation by **20%**.

Black Students Union

Treasurer

October 2019 - May 2020

- Outlined and communicated profit strategies to increase profits.
- Identified and developed innovative strategies for payment handling and other functions.
- Generated monthly and quarterly projections while assisting with the annual budget.

Activities & Achievements

PVAMU Dean's Honors • Houston Food Bank volunteer • Centennial Chemistry Scholarship • The Troi and Kelley Taylor Scholarship • The George Foundation Scholarship • PVAMU Ignite Hackathon 1st place winner