

# Abdulai Bah

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Frisco, TX  
EDUCATION

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**Texas A&M University** | College Station, TX  
Bachelor of Science in Computer Engineering  
GPA: 3.5

Aug 2021 - May 2025

## SKILLS

- Python, Java, C++, HTML, CSS, Git, Robotics
- Linux, MATLAB, Verilog, Logic Design, Armv8 Assembly,
- Native French Speaker
- Testing Equipment (Manometer, Flowmeters, Oscilloscopes, etc.)
- Microsoft Word, Excel, Publisher

## EXPERIENCE

**ExVeritas North America** | Garland, TX

*Test Engineering Intern*

Jun 2023 – Jul 2023

- Drafted test method documents using IECEx standards to increase lab's consistency
- Modified explosion testing apparatus to double efficiency
- Operated data loggers for heat, voltage, and current of 20 testing samples
- Applied IECEx standards to prepare 30 samples for testing
- Researched various testing equipment and spoke to suppliers to add to lab capabilities

**Strand Beest** | College Station, TX

*Team Member*

Sep 2021 – May 2022

- Collaborated with a team to design movement software for a two-motor robot operating in differential drive
- Read motor-controller libraries and documentation to implement formulas for movement

## LEADERSHIP EXPERIENCE

**Germination System** | College Station, TX

*Programming Lead*

Sep 2021 – May 2022

- Conceived a modular system that could be applied to various plant species' needs
- Programmed a Raspberry Pi to function as a central control unit to manage an autonomous growing device
- Analyzed data sheets and documentation for sensors and servo motors to implement them into the system
- Designed and implemented software to read and write to GPIO pins

**Lone Star Debate** | Frisco, TX

*Captain*

Sep 2019 – May 2021

- Competed and placed in 3 regional tournaments with other schools
- Taught 15 new members Lincoln-Douglas debate
- Collaborated with other captains to foster and facilitate a learning community for the debate program

## PROJECTS

**Riot Discord Bot**

*Personal Project*

Oct 2022

- Created a Discord bot to track and update rankings in a server with 10 users
- Employed Discord API and Riot LoL\_Watcher API to pull data from Riot Games

**PyQt Calculator**

*Personal Project*

Jul 2023

- Developed a Calculator application and GUI using PyQt in Python
- Programmed 5 operation functions as well as answer storage

**Tower Defense RPG**

*Personal Project*

Jul 2023

- Drafted a text-based game using Object Oriented Programming in Java
- Used an Inheritance structure to handle interactions between game components
- Responded to feedback by implementing game-balance mechanisms
- Enlisted 15 play-testers to receive feedback from
- Refactored project for same functionality in Python

**Circuit Design**

*Coursework*

Sep 2022 – Dec 2022

- Designed various circuits on breadboards such as full adders, ripple carry adders, and arithmetic logic units
- Simulated previously mentioned circuits virtually using Verilog (Hardware Design Language)
- Exported various circuit designs to FPGA boards such combination locks and traffic light control