

ADIAZI UGOCHUKWU PRECIOUS



+234 7033062210 | +234 8058160862



adiaziprecious@gmail.com

PROFESSIONAL SUMMARY

Technically versatile Systems Engineer with strong interest in automation, embedded systems, robotics, and systems integration. Experienced in microcontroller applications, ROS-based simulations, Python programming, and engineering design tools. Skilled in backend system architecture and system optimization, with the ability to analyze, debug, and improve technical systems. Seeking hands-on experience in automation and design environments.

TECHNICAL SKILLS

Embedded Systems & Automation

- Arduino & Microcontrollers
- Sensor Integration & Control Logic
- ROS Simulations (Obstacle Avoidance & Environment Testing)
- Basic Control Systems Principles

Programming

- Python (Data Structures & Algorithms)
- C++

- Java

Engineering and Simulation Tools

- Fusion 360
- Tinkercad
- ANSYS (CFD Exposure)

Systems Development

- REST API Development
 - Database Systems (MongoDB, SQL, Oracle)
 - Git & Version Control
 - System Debugging & Performance Optimization
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ENGINEERING PROJECT EXPERIENCE

Robotics Simulation Work

- Conducted multiple ROS-based simulations involving obstacle avoidance and environment interaction.
- Applied control logic and algorithmic thinking to robot navigation scenarios.

Microcontroller Applications

- Worked with Arduino for embedded control and basic hardware interfacing.
 - Applied sensor-based logic for simple automation tasks.
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TECHNICAL EXPERIENCE

Lead Backend Engineer / Systems Developer

GRUP LIMITED | Feb 2025 – Present

- Designed and maintained scalable backend system architecture.
 - Implemented secure authentication systems and API integrations.
 - Optimized system performance through query tuning and monitoring tools.
 - Coordinated deployments and system updates across environments.
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Web Developer

Phlames Fashion Stores | Feb 2024 – Apr 2024

- Developed backend services using Java and Spring Boot.
 - Integrated REST APIs and optimized database performance.
 - Conducted testing and debugging to improve reliability and responsiveness.
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Backend Development Intern

PIPELINE | Oct 2023 – Nov 2023

- Assisted in backend system maintenance and debugging.
- Improved database efficiency and application stability.

- Supported feature integration and performance improvements.
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EDUCATION

Bachelor of Science – Systems Engineering
University of Lagos

ADDITIONAL INFORMATION

- Strong analytical and problem-solving skills
- Comfortable working across software and hardware systems
- Based in Lagos