

Abdurrahman Adebisi Aderinto

Department of Electrical Electronics Engineering, Air Force Institute of Technology (AFIT), Kaduna, Nigeria
(+234) 906-144-3128, abdurrahman.aderinto@gmail.com, [Linkedin](#)

OBJECTIVE

Seeking a Masters position to gain a platform for learning, exploring new technologies, and develop my research and technical skills.

Research Interests:

- Infrastructure Systems
- Optimization
- Systems Engineering
- Decision Making
- Machine Learning

EDUCATION

B.Eng. Electrical Electronics Engineering - GPA: (4.73/5.00)

Nov. 2018 – Dec. 2023

Air Force Institute of Technology, Kaduna, Nigeria

Graduated as the top student among Electrical Electronics Engineering students

Selected Courses:

- Control Theory: 12/15 (4/5)
- Electromechanical Systems (I): 8/10 (4/5)
- Reliability and Maintainability Engineering: 10/10 (5/5)
- Advanced Computer Programming and Statistics: 10/10 (5/5)
- Engineering Mathematics IV: 8/10 (4/5)
- Signals and Systems: 10/10 (5/5)
- Research Methodology: 5/5 (5/5)
- Control Engineering: 15/15 (5/5)
- Artificial Neural Network: 5/5 (5/5)
- Communication Systems Engineering: 15/15 (5/5)

Course Projects:

- Designed a Pulse Induction Metal detector using an Arduino Microcontroller and an IRL540 MOSFET
- Designed a 3D Model of a Heart Rate Sensor using SOLIDWORKS and LabVIEW for Pregnant Women for a Startup at the National Center for Artificial Intelligence and Robotics
- Designed and Developed both the Chassis and Internal Circuitry of an agricultural Rover that uses a Raspberry Pi and an L298N Motor Driver.
- Developed a Yoruba Customer Service Chatbot in LangChain
- Conducted a Stability Analysis on a Transactional based Smart Grid Power System
- Developed a predictive model to detect impact on crop yield due to Climate Change.
- Designed and Developed a Smart Home Automation Model in Keil uVision that uses an ESP32 Microcontroller with i2C communication.

HONOURS AND AWARDS

- Best Graduating Student in the electrical electronics engineering department (*Airforce Institute of Technology, Kaduna*)
- Runner-up contestant in the 1st Annual Hackathon (*Airforce Institute of Technology, Kaduna*).
- Best Graduating Pupil (*Intelligence Quotient Academy*).

PUBLICATIONS

Development of an intelligent-based telemetry hexapod robotic system for surveillance of power system components

Tooki, O.O., Aderinto, A. A. and Popoola, O.M. (2024). Development of an Intelligent-Based Telemetry Hexapod Robotic System for Surveillance of Power System Components. *e-Prime - Advances in Electrical Engineering, Electronics and Energy*, <https://doi.org/10.1016/j.prime.2024.100806> (Indexed in Scopus: Q1).

2024

CONFERENCES

Tooki, O.O., Aderinto, A. A., Ojerinde, I. A., Abolade, R. O., and Aborisade, D. O. (2023). Development of an Intelligent-Based Hexapod for Surveillance Using Raspberry Pi. International Conference on Engineering & Innovative Technology (ICEIT 2023), on Innovation and Creativity for Sustainable Development, Bells University of Technology, Ota, Nigeria. 19-21 Sep. 2023

2023

EXPERIENCE

Frontend Engineer

Sep 2024 - Present

I4 Global Services Limited

I am currently going through my National Youth Service Corps (NYSC) Program at the Organization by developing production ready applications.

Robotics Engineering Instructor

Sep. 2024 – Oct. 2024

Granny Murray Schools

Volunteered to teach curious kids the basics of building a robotic system

Embedded Systems Instructor

Sep 2022 – Mar. 2023

National Center for Artificial Intelligence and Robotics

- Volunteered to oversee handling the onboarding of fellow interns at the Agency, equipping them with the essentials needed to undergo various embedded systems projects.
- I conducted research with my supervisor on a cost-effective rover that would be used by local farmers to assist with weed management and soil irrigation.

Engineering Internship

Jan. 2023 – Mar. 2023

National Center for Artificial Intelligence and Robotics

- Participation in the development of a Heart Rate Monitoring System for Pregnant Women.
- Studied the AVR Architecture, the core of the ATMEGA328P Microcontroller
- Researched alternative methods to utilize the ATMEGA328P Microcontroller outside the confines of a prebuilt model.

TECHNICAL SKILLS

Programming: Python, MATLAB, Typescript, C++

Frameworks: Sci-kit-learn, Pandas, NumPy, Matplotlib, React, Nextjs.

System Design: Simulink, ETAP, LabVIEW, Keil uVision

Engineering Design Packages: SOLIDWORKS, Autodesk AutoCAD, Altium Designer

Graphic Design: Adobe After Effects, Adobe Illustrator.

Database Management: PostgreSQL, MongoDB, Firebase Firestore.

Others: Microsoft Office, Bitrix24, Notion.

LANGUAGES

• **English:** Fluent

• **Arabic:** Intermediate

• **Yoruba:** Intermediate

CERTIFICATIONS

Embedded Systems - Shape The World:
Microcontroller Input/Output (Edx)

Graduate Member of the Nigerian Society of Engineers
(GMNSE)

Complete 2022 Data Science & Machine Learning
Bootcamp (Udemy)

ChalmersX: Model-Based Automotive Systems
Engineering (Edx)

HOBBIES

Table Tennis, Swimming, Digital Design, Teaching, Poetry

REFERENCES

Available upon request