

# Olaitan Lekan Adeniyi

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## EDUCATION

### OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE

Nigeria

#### *Bachelor of Science in Agricultural and Environmental Engineering*

July 2025

*Capstone project:* Performance Evaluation of a Recirculatory Aquaculture System.

*Leadership:* Academic Secretary. Redeemed Christian Fellowship, OAU – Student Chapter

June 2024 - July 2025

*Grade:* First Class (4.52)

## PROFESSIONAL EXPERIENCE

### PEEPALYTICS

United States (Remote)

#### *Founding Engineer (Software Architect and Team Lead)*

June 2024 - Current

- Optimized data pipelines (Pandas/Neo4j) reducing processing latency by 98.7% (from 2 hours to 90 seconds).
- Architected AI solutions using RAG, AWS Bedrock, and SageMaker for automated system analysis.

### FANMILK PLC

Ibadan, Nigeria

#### *Safety, Health and Environment Officer (Intern)*

April 2024 - Sept 2024

- Participated in effluent treatment and water treatment operations, ensuring proper data monitoring and management of waste water and treated water to meet environmental compliance standards.
- Conducted frequent air, water, and noise level monitoring, including ATEX zone assessments, to evaluate workplace conditions and ensure compliance with regulatory and safety requirements.
- Facilitated safety induction training for officials and expatriates, improving awareness of workplace hazards and permit-to-work systems.
- Gained hands-on exposure to production processes and engineering operations, strengthening technical knowledge of dairy processing systems and preventive maintenance practices

### Central Technological Laboratory Workshops (CTLW)

Osun, Nigeria

#### *Engineering Intern*

July 2023 - Sept 2023

- Contributed to the design and fabrication of food processing machines, such as a rice dehuller and plantain slicer applying principles of machine design.
- Gained practical exposure to machining processes including turning, facing, knurling, boring and drilling.
- Participated in fabrication and welding operations, including assembly, repair, and modification of equipment and facility structures.
- Assisted in facility-specific operations at the University Palm Oil Processing Unit.

## TEACHING EXPERIENCE

### AGRICULTURAL AND ENVIRONMENTAL ENGINEERING STUDENT SOCIETY(AGEESS)

Osun, Nigeria

#### *Academic Tutor*

Feb 2021 - July 2025

- Organized tutorials in conjunction with the departmental president for my colleagues in courses like CSC201 (Computer Programming), AEE305 & 306 (Applied Engineering Thermodynamics), AEE407 (Design of Agricultural and Food Processing Machines etc.
- Prepared learning materials and sample exam questions for colleagues during test and exam period.

### REDEEMED CHRISTIAN FELLOWSHIP

Osun, Nigeria

#### *Physics Tutor*

Oct 2020 - June 2021

- Volunteered to tutor freshmen of the fellowship PHY 101 (Introductory Physics). Modules taught included calculus, set theory, statistics, mechanics, etc.
- Provided academic guidance to students by sharing effective exam preparation tips and strategies for improving performance.

## ACADEMIC PERFORMANCE PROFILE

### Achieved top-tier grades in core Engineering domains:

- Machine Design & Processing: Handling Agricultural Materials (91), Farm Machinery (87), Design of Ag. Machines (87).
- Energy & Mechanics: Applied Engineering Thermodynamics (87), Fluid Mechanics (84), Engineering Mechanics (80).
- Infrastructure: Introduction to Ag. Structures Design (85), Agricultural Land Surveying (83).

## UNIVERSITY SERVICE/ LEADERSHIP EXPERIENCE

### Academic Secretary at Redeemed Christian Fellowship

June 2024 - Jul 2025

- Held personal interactions, counseling, and mentorship sessions with individuals facing academic challenges, ensuring proper support and follow-up.
- Organized regular academic reminders, talks, and workshops on time management, effective study habits, and maximizing lecture-free weeks, delivered during faculty meetings and workers' meetings.
- Facilitated tutorials for freshmen during the semester, including overnight tutorials.

### Agricultural And Environmental Engineering Student Society (AGEESS)

Osun, Nigeria

#### Academic Tutor

Feb 2021 - Jul 2025

- Organized tutorials in conjunction with the departmental president for my colleagues in courses like CSC201 (Computer Programming), AEE305 & 306 (Applied Engineering Thermodynamics), AEE407 (Design of Agricultural and Food Processing Machines etc).
- Prepared learning materials and sample exam questions for colleagues during test and exam period.

### Assistant Class Representative

- Assisted the Class Representative in coordinating academic and administrative activities within the class.
- Supported in organizing class meetings, taking attendance, and ensuring order during lectures.

## AWARDS AND CERTIFICATIONS

### Overall Best Graduating Student: Department of Agricultural and Environmental Engineering

2025

- Masteck Industries & Engineering Services LTD Award for Best Graduating Student, Class of 2024
- Engineer J.A Olaleye Award for the Best Graduating Student
- Professor V.A Oyenuga (Vabo) Award for Best Graduating Student, Class of 2024

### Best Graduating in Crop Processing and Storage Award: Professor V.A Oyenuga (Vabo)

2025

### Academic Excellence Award: Central Office of Research, Obafemi Awolowo University

- (Academic Award for best student in the department at 400, 300 and 200 level)

2025, 2024, 2023

### National Level E-Quiz on Python (Score: 75%)

Aug 2020

University of Kerala (Certificate ID 8GCDYS-CE000297)

### Understanding Renewable Energy

Oct 2019

YALI Africa

## TECHNICAL SKILLS

- **AutoCAD Design:** Orthographic and isometric projections, design of bolts and nuts, chamfering and filleting of edges, thread representation, bearings, piping, and structural components.
- **Arduino:** Drone Technology, Arduino IDE, Protheus, Sensors (Water level, PIR and Flame sensor)
- **Safety, Health & Environment (SHE):** Effluent Treatment, Air, Water and Noise Monitoring, ATEX Zone Testing, Fire Extinguisher Servicing, Safety Induction Training.
- **Programming & Development:** Python, JavaScript, C, Java and C++ **Databases:** PostgreSQL, Neo4j, Vector Databases.
- **AI & Machine Learning:** Retrieval-Augmented Generation (RAG), AWS Bedrock, SageMaker, Multi-Agent Systems.
- **Data Engineering:** ETL pipelines, Airflow, Kafka, Automation (Celery, Redis, CronJobs, Selenium)
- **Operations Research:** (Linear Programming, MIP, VRP), **Engineering Simulation:** (Orbital Mechanics, Fluid Dynamics)

## PROFESSIONAL MEMBERSHIP

GMNSE – Graduate Member of Nigerian Society of Engineers

2025

CSBE Member – American Society of Agricultural and Biological Engineers (ASABE)

Since 2023