

ADEMOLA SAMUEL OKUNJOYO

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RESEARCH INTEREST

I am driven to solve pressing environmental issues. My research focuses on the interconnectedness of agriculture, food quality, controlled environment, microbes, and the environment, utilizing sustainable approaches, environmental remediation, water engineering, waste management, and smart technological equipment.

EDUCATION

Bachelor of Engineering (B.Eng.), Agricultural and Environmental Engineering Jan 2017 – Jul 2023

Federal University of Technology, Akure (FUTA), Nigeria.

Major GPA: 5.0/5.0 Final Cumulative GPA: **4.13/5.00** (82.6%) Top 10% (Second Class Upper Honours)

Thesis: “Development and Performance Evaluation of an Instrumented Hybrid Onion Storage Facility.”

Supervisor: Dr. Babatunde S. O.

Relevant course work: Agricultural Machinery & Structural Design, Environmental Engineering, Waste Management, Engineering cost management, Fluid Mechanics, Environmental Control.

HONORS AND AWARDS

- 2 Dean's Recognition Awards for Outstanding Performances, Agricultural and Environmental Engineering, Federal University of Technology, Akure, FUTA. Sep 2019 – Oct 2019
- Most versatile intern of the year at TVS Automobile Engineering Limited. Sep 2019
- Most Active Spokesperson and contributor: Issued by FUTA Plogga's. Apr 2023
- Award for the Best Class Representative and Outstanding Service Award: Nigerian Institution of Agricultural Engineers National Students Body (NIAESB), FUTA chapter. Jul 2023

RESEARCH EXPERIENCE

Development and Performance Evaluation of an Onion Storage Facility Nov 2022 – Jun 2023

Agricultural Engineering Lab (FUTA)

Akure, Ondo State, Nigeria.

- Development of an onion storage facility using a refrigerator.
- Implementation of control systems in the storage facility.
- Used Arduino and Python Programming languages to set temperature and pressure variables.
- Practical use of laboratory oven, weight balance, Vernier calliper, and wire masks.
- Check for water absorption rate after every 24 hours.
- Analyze experimental results and prepare a manuscript.

Research Assistant

Oct 2021 – Dec 2022

Agricultural and environmental engineering workshop, FUTA, Nigeria.

Design and development of an image-capturing box

- Drawing and designing the image-capturing box using freehand sketching and SolidWorks.
- Implementation of well-lit lights and cameras in the capturing box.
- ImageJ was used to analyze, process, and calculate the angles and roundness of agric-materials.

Research Assistant

Sep 2021 – Dec 2021

Treatment of wastewater using chemical oxygen demand (COD) and biochemical Oxygen demand BOD

Agricultural and Environmental Engineering Water Conservation Laboratory (FUTA)

- Collection of wastewaters from different wastewater outlets within the school environment.
- Laboratory handling of wastewater apparatus for determining COD and BOD.
- Calculation of oxygen needed and oxygen consumption in wastewater.

WORK EXPERIENCE

First City Monument Bank (FCMB)

June 2025 – Present

Central Processing Centre: Quality Assurance Officer (ET)

- Collection of data to match the customer's bank verification number (BVN)
- Matching of data to meet with organization quality standard
- Collaborating with other teams for corrections, wrong reset of information and investigations.

Deloitte Data Analysis Job Simulation

May 2025

Australia.

- Used data analysis tools and forensic technology for analyzing and visualizing (Tableau)

Akinyele Local Government, Moniya Ibadan, Oyo State (NYSC)

Feb 2024 – Sep 2024

Position: Data Analyst/ Junior Administration

- Assisted in proper documentation of files and data collection
- Secured federal government intervention loans for residents and government programs

Bitmap Technologies

Nov 2018 - Jan 2020

Position: Site Engineers/Field Operation Supervisor

- Oversee quality control processes and materials inspection during construction.
- Provide technical advice through research on the suitability of materials for construction finishes.
- Implement and ensure compliance with health, safety, and environmental practices on the site.

TVS Automobile

May 2018 - Oct 2018

Position: Service and maintenance engineer

- Digitized over 400 job cards, improving data accessibility through cloud storage and retrieval
- Overhauling of automobile engines by replacing the necessary parts
- Documentation of work done using Excel sheets.

Taulat Engineers

Jan 2018 - Apr 2018

Position: Technical Engineer

- Assisted in the fabrication and machine design
- Ensured adherence to company policies and regulatory requirements, maintained 100% working etiquette
- Professional handling of workshop tools

TEACHING EXPERIENCE AND INTERNSHIP

Olam Tutors, Ibadan, Nigeria. May 2024 - Aug 2024

West African Senior School Certificate

Joint Admission Matriculation Board

Federal University of Technology, Akure, Nigeria.

Mar 2021-Aug 2021

Statistics /Mechanical Engineering Drawing Tutor

PUBLICATIONS

Journal Paper Published

Babatunde SO, Ademola SO, Aderotoye AM, Development and Performance Evaluation of an Instrumented Hybrid Onion Storage Facility. ABUAD Journal of Engineering Research and Development (AJERD) ISSN (online): 2645-2685; ISSN (print): 2756-681 doi: <https://doi.org/10.53982/ajer.2024.0702.51-j>

Published Article

<https://ijarers.com/article/ijarers5004.html>

SERVICE ACTIVITIES

Community Service

- World Health Organisation: Independent Monitor
- FUTA Plogging Unit
- Nigeria Red Cross

Sep 2024 – Nov 2024

Mar 2023 – Apr 2023

Feb 2010 – Aug 2011

Leadership Activities

- President, Culture and Tourism (NYSC)
- Class Representative, Agricultural and Environmental Engineering, FUTA
- Advisor, Nigeria Institute of Agricultural Engineers.

Jul 2024 – Oct 2024

Jan 2017 – July 2023

Jun 2022 – Oct 2022

COMPETENCE

Soft Skills: Written and oral communication, Research and Analysis, Teaching, Time Management, Critical thinking, Problem-solving, Multi-tasking, Leadership Skills, and Team management.

Software: Microsoft office word, Microsoft excel, C#, Tableau and Python.

ASSOCIATIONS/GROUPS

The Nigerian Society of Engineers Graduate member (NSE).

2024 - Present

Green Switch Plogga's FUTA

2023 - Present

Nigeria Institution of Agricultural Engineers (Niae).

2017 - Present

Member, Nigeria Universities Engineering Students' Association (NUESA)

2017 – Present

GITHUB

<https://github.com/Adesax27>