

CURRICULUM VITAE

PERSONAL DATA

FULL NAME: OWODOLU Opeoluwa Emmanuel
DATE OF BIRTH: 27th September, 1999
PLACE OF BIRTH: Ogun State
SEX: Male
MARITAL STATUS: Single
NATIONALITY: Nigerian
TOWN AND STATE OF ORIGIN: Ilaro, Ogun State.
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AREA OF SPECIALIZATION: Mechatronics
(Robotics and Industrial Automation)

EDUCATION BACKGROUND

Institution Attended and Qualification Obtained with Dates

INSTITUTION	QUALIFICATION	GRADE	DURATION
A. Afe Babalola University Ado-Ekiti, Ekiti State.	Ph.D. (Mechatronics Engineering)	In-View	2025 - 2028
B. Afe Babalola University Ado-Ekiti, Ekiti State.	M. Eng. (Mechatronics Engineering)	Ph.D. Grade	2023 - 2025
C. Bells University of Technology, Ota, Ogun State.	B. Eng. (Mechatronics Engineering)	2 nd class (Upper Division)	2017 - 2022

D. Poly International College, Ogun State.	WAEC	Cert.	2017
E. Tofunmi Children School, Ogun State.	FSLC	Cert.	2011

Academic and Professional Qualification (with Dates)

- (a) M. Eng. (Master of Engineering) in Mechatronics Engineering, Afe Babalola University Ado-Ekiti, Ekiti State, Nigeria, 2025.
- (b) B. Eng (Bachelor of Engineering) in Mechatronics Engineering, Bells University University, Ota, Ogun State, Nigeria, 2022.
- (c) Council for the Regulation of Engineering in Nigeria (COREN) In-View
- (d) SIWES, Dangote Cement PLC. Ibese Plant, Ogun State.
- (e) SolidWorks 3D CAD using a real-world example, Udemy, 2024.
- (f) AutoCAD 2D & 3D Design, New Horizons, 2022.
- (g) ROS2 for Beginners—ROS Humble, Udemy, 2025-2026.
- (h) ROS2 Manipulator Robot with Python and C++, Udemy, 2025-2026.
- (i) Self-Driving and ROS 2—Learn by Doing! Odometry & Control, Udemy, 2025-2026.
- (j) Design Thinking, New Horizons, 2022.
- (k) Microsoft Office 365, New Horizons, 2022.

WORKING EXPERIENCE

Industrial Trainee (Mechanical/Instrumentation Department)

Dangote Cement—Ogun, Nigeria | April 2021–October 2021

- Conduct daily inspections of machinery to identify faults before continuous production.
- Examining and optimizing production and manufacturing processes to reduce waste, enhance productivity, and improve efficiency.
- Designed conveyor belts, rollers, and frames for conveying palm fruit shells for burning in the cement kiln.

PUBLICATIONS

(a) Dissertation

Owodolu, O. E: A Comprehensive Review of Autonomous Navigation Systems for In-Pipe Inspection Robots Using Advanced SLAM Techniques, 2024 IEEE 5th International Conference on Electro-Computing Technologies for Humanity (NIGERCON), Afe Babalola University, Ado-Ekiti, Ekiti State (2024).

Owodolu, O. E: Modelling and Simulation of Hybrid-Power Generation via Solar and Wind Turbine Using MATLAB/Simulink for Sustainable Energy Development, *NIPES Journal of Science and Technology Research* (NJSTR), Afe Babalola University, Ado-Ekiti, Ekiti State (2025).

Owodolu, O.E: Design and Implementation of a Water Level Indicator and Alarm System. 2024 IEEE 5th International Conference on Electro-Computing Technologies for Humanity (NIGERCON), Ado Ekiti, Nigeria, 2024, pp. 1-4, doi: 10.1109/NIGERCON62786.2024.10927367.

Adewuyi, P., & Owodolu, O. (2025). An ATMEGA 168-based semi-autonomous mobile forklift system with six degrees of freedom. *International Journal of Vehicle Autonomous Systems*, 1(1). <https://doi.org/10.1504/ijvas.2025.10075518>

(b) International Refereed Conference

Emmanuel, O. O., Salami, M. J., & Lawan, R. O. (2024). A Comprehensive Review of Autonomous Navigation Systems for In-Pipe Inspection Robots Using Advanced SLAM Techniques. 2024 IEEE 5th International Conference on Electro-Computing Technologies for Humanity (NIGERCON), 1–5. <https://doi.org/10.1109/nigercon62786.2024.10926841>

TEACHING EXPERIENCE

National Youth Service Corps (NYSC)

Technical Drawing Instructor

Federal Government College, Okposi | 2022–2023

- Developed and delivered engaging technical drawing curricula for senior secondary students.
- Facilitated interactive lessons to enhance students' engineering design skills through freehand sketching and CAD applications.
- Conducted regular assessments to monitor and improve student progress in technical drawing and design understanding.
- Organized extracurricular workshops to train students in the practical use of AutoCAD for engineering design projects.

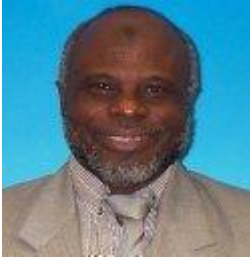
COMMUNITY SERVICE

- Animation/Motion Graphics Instructor at ABUAD Salt Valley Associates (ASVA) from 15th – 17th march
- Corps Liaison Officer (CLO) for environmental CDS from 07/07/2023 – 22/10/2023

EXTRA CURRICULAR ACTIVITIES

Industrial Designing, Programming, Creative Designing.

NAME AND ADDRESS OF REFEREES



Prof. Momoh-Jimoh Eyiomika SALAMI

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Engineering,

Afe Babalola University, Ado-Ekiti, Ekiti State,
Nigeria.

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Pastor Oyelakin Samuel

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Territory, Nigeria.

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Signature:

A handwritten signature in blue ink, appearing to be the name of the signatory.

Date: JULY, 30, 2025