

Engr. Denen Collins AKUA

EDUCATION

Degree	Discipline	Institution	Year
Ph.D.	Electrical and Electronics Engineering (Communication and Digital Signal Processing Engineering Option)	Federal University of Agriculture, Abeokuta, Nigeria	In View
M.Sc.	Telecommunication Engineering	Ahmadu Bello University, Zaria, Nigeria	2019
B.Eng.	Electrical and Computer Engineering	Federal University of Technology, Minna, Nigeria	2012

ACADEMIC EXPERIENCE

From – To	Institution	Rank/Title	Status of Appointment (Full Time/Part Time)
October 24, 2025 – Date	Federal University of Agriculture, Abeokuta, Nigeria	Lecturer II	Full time
September 22, 2022 – October 24, 2025	Covenant University, Ota, Nigeria	Assistant Lecturer	Full time

NON-ACADEMIC EXPERIENCE - Nil

MEMBERSHIP OF PROFESSIONAL BODIES

i. Registered Engineer, Council for the Regulation of Engineering in Nigeria (COREN): R.84228 — 2026
ii. Corporate Member, The Nigerian Society of Engineers (NSE) (69661) — 2025

COMMUNITY SERVICE

i. Technical Adviser, Almog Engineering Limited, Abuja — 2023
ii. Technical Adviser, JehoAshar Energy Limited, Abuja — 2022

SELECTED PUBLICATIONS

1. **Akua, D.C**., and Odikayor, D.C (2026) Development of an AI-Driven Model to Enhance Athlete Performance in Sport**, Proceedings of the College of Engineering, International Conference, Federal University of Agriculture, Abeokuta.**
2. **Akua, D.C.,** Adeyinka, A.A., Boluwatife, F**.** (2026) Implementation of a Smart Home Automation Using ESP32 and Firebase Cloud Platform for Real-Time Data Synchronisation, Emerging Trends in Sustainable Energy, Smart Systems and Green Technology. CRC Press, PP. 1-10

3. **Akua, D.C**., Adewale A. A., & Kolade. A.A., (2025) Development of an Automated Intravenous Infusion Rate Control System Using PID and IoT Monitoring. **EIE International Conference on Computing, Energy, networking, Robotics and Telecommunication** held on 22-24 July, 2025 at Covenant University, Ota. IEEE Xplore.
4. **Akua, D.C**., Adewale A. A., & Okuwobi. O.B., (2025) Development of a Machine Learning-Driven Web Application for Heart Disease Detection and Diagnostic Support. **EIE International Conference on Computing, Energy, networking, Robotics and Telecommunication** held on 22-24 July, 2025 at Covenant University, Ota. IEEE Xplore

5. **Akua D.C,** Sani S.M, Bajoga B.G, Usman A.D (2020). An improved approach to robust digital image watermarking algorithm using lifting wavelet transform technique for copyright protection, ***Abubakar Tafawa Belewa University Journal of Science, Technology and Education*** *(ATBU JOSTE)Volume 8, Issue 1.*

PROFESSIONAL DEVELOPMENT

1. 1-Day Workshop on the Theme: Experimentation to Commercialization: 21st Century grant writing techniques, Organised by FUNAAB Management held at Green Chamber (Old Senate Building), Feb. 17, 2026.
2. 1- Day Capacity Training Workshop Titled "Accelerating Quality Academic Delivery in the Nigerian University System for Sustainable Development Goals". Organised by FUNAAB Management held at Prof. Oyewole Lecture Hall (1000-Seater Capacity), Dec. 17, 2025.
3. A 1-day Training on Grant Writing Organised by COLENG, CU, June. 10, 2025.
4. 1 day Outcome Based Education (OBE) Workshop Organised by COLENG, CU, Oct 8, 2024.
5. 5 days' Capacity Building Workshop on Advanced Digital Empowerment Programme for Tertiary Institutions, Data Analysis Using SPSS and MS Power BI for New Faculty Members, organised by International Centre for Information and Communications Technology Studies at CU, August. 14 - 18, 2023.