

# Curriculum Vitae

## 1. Biodata

Name:	<b>BALOGUN, Ayodeji Bolanle</b>
Date & Place of Birth:	<b>27 May 1982, Ikeja</b>
Gender:	<b>Male</b>
Nationality:	<b>Nigerian</b>
Email:	<a href="mailto:ayodeji.balogun@federalpolyilaro.edu.ng">ayodeji.balogun@federalpolyilaro.edu.ng</a>
ORCID:	<b>0009-0006-4132-4329</b>
LinkedIn:	<b>ayodeji-balogun-fcmgr-a1432a37</b>
Telephone Number:	<b>08036181212</b>
Present Position:	<b>Senior Technologist</b>
Date of Last Promotion	<b>1<sup>st</sup> January, 2023</b>

## 2. Institution Attended with dates

1. Coventry University, United Kingdom	2023 – 2024
2. Federal University, Oye-Ekiti	2020 – 2023
3. National Open University of Nigeria, Lagos State	2013 – 2016
4. Lagos State Polytechnic, Ikorodu	2007 – 2009
5. Moshood Abiola Polytechnic, Abeokuta	2001 – 2004
6. IMS Computer School	2001
7. Sonmori Comprehensive High School	2000
8. St. Joseph Sec. School	1993 – 1999

## 3. Academic Qualifications with dates

YEAR	INSTITUTION	CERTIFICATE
2024	Coventry University, United Kingdom	MSC with Distinction in Electrical and Electronic Engineering
2024	Federal University, Oye-Ekiti	BEng in Electrical and Electronics Engineering
2017	National Open University of Nigeria, Lagos State	PGD Mobile (Wireless) Communication Technology
2009	Lagos State Polytechnic, Ikorodu, Lagos State	HND Elect/Elect Engineering (Telecommunication)
2005	Moshood Abiola Polytechnic, Ojere, Abeokuta, Ogun State	National Diploma Elect/Elect Engineering
2002	IMS Computer School, Ikeja, Lagos State	Diploma in General Computing

2000	Sonmori Comprehensive High School, Ifako-Ijaiye	WAEC
1999	St. Joseph Sec. Sch., Idi-Mangoro, Lagos State.	WAEC

#### 4. Professional Qualifications (if Applicable)

YEAR	INSTITUTION	CERTIFICATE
2024	Chartered Management Institute - CMI	Level 7 Certificate in Strategic Management and Leadership Practice
2021	Macquarie University	Excel Skills for Business: Intermediate II
2020	University of Buffalo	Solar Energy Codes, Permitting and Zoning
2020	Georgia Institute of Technology	Speak English Professionally: In Person, Online & On the Phone
2020	Yonsei University	Wireless Communication for Everybody
2020	University of Buffalo	Solar Energy Systems Overview
2020	Yonsei University	IoT (Internet of Things) Wireless & Cloud Computing for Emerging Technologies
2020	University of Buffalo	Solar Energy and Electrical System Design
2020	Macquarie University	Excel Skills for Business: Intermediate I
2020	Georgia Institute of Technology	Write Professional Email in English
2020	Yonsei University	Smart Device & Mobile Emerging Technologies
2020	University of London	Understanding Research Methods
2020	Macquarie University	Excel Skills for Business: Essentials
2020	Google	Technical Support Fundamentals
2017	Huawei & FGN	HCDA (Datacom) Engineer & App Development
2015	Intel Education	Master Trainer
2015	PushCV Learning Centre	Fundamentals of Project Management
2007	Women Development Centre	Certificate in Computer Techniques & Operations

#### 5. Membership of Learned Societies & Professional Bodies

Council for the Regulation of Engineering in Nigeria ( <b>COREN</b> ) R82353	2025
Institute of Electrical and Electronics Engineers ( <b>IEEE</b> ) 101936294	2025
Chartered Management Institute – <b>CMI</b>	2024
International Association of Engineers ( <b>IAENG</b> ) Reg. No. 280699	2021
Council for the Regulation of Engineering in Nigeria ( <b>COREN</b> ) R5010ET	2019

#### 6. Working Experience

- a. Academic Experience
- i. Teaching Experience

EMPLOYER	DATE	DUTIES	STATUS
----------	------	--------	--------

The Federal Polytechnic, Ilaro	2016 - date	Ensure that Practicals are performed and marked; carry out research, and administration within the Department. Instructing undergraduate level in areas allocated and reviewed from time to time by the Head of Department. Contributing to departmental, faculty and Institutional committees as requested.	Senior Technologist
Systakom Technologies Limited, Ikeja, Lagos State	2012 - 2013	Installation, service maintenance and repair of X-ray screening machine (Rapiscan, Autoclear, Astrophysics etc.) and CCTV installation and maintenance.	Technical Officer
Women Development Centre, Pen Cinema, Lagos State.	2007 – 2016	Training of personnel in general computer studies and application (word processing, desktop publishing, engineering etc.). Data entry and processing of all students and staff, budget preparation etc.	Facilitator/Data Processing Officer
Royal Exchange and Assurance Nigeria Plc.	2002	Maintenance and installation of electrical and electronic devices	Industrial Attaché

**ii. Courses/Practicals Taught**

▪ Instruments Repair and Maintenance (EEI 426)	HND II
▪ Process Measurement (EEI 424)	HND II
▪ Electronic Instrumentation (EEI 422)	HND II
▪ Control Engineering (EEC 413)	HND II
▪ Pneumatic Instrumentation (EEI 417)	HND II
▪ Electrical Measurement and Control IV (EEI 431)	HND II
▪ Industrial Control (MCI 413)	HND II
▪ Electrical Measurement and Control III (EEI 311)	HND I
▪ Electrical Measurement and Control II (EEC 216)	ND II
▪ Electrical Measurement and Control I (EEC 126)	ND I
▪ Electrical Engineering Science II (EEC 125)	ND I
▪ Electrical Engineering Science I (EEC 115)	ND I

**iii. Research Interest**

Renewable Energy, Wireless Communication, Control systems, Embedded Systems and Automation, Equipment Fabrication

**iv. Academic Leadership Positions**

- (i) Education Rep Engineering Learning Network - Chairman
- (ii) PND I Class Adviser

**b. Administrative Experience**

- (i) Member, School of Engineering Electoral Committee
- (ii) Member, School of Engineering Conference Committee
- (iii) Member, Institution Based Research (IBR) Committee
- (iv) Member, Departmental Manual and Handbook Committee
- (v) Member, FPI Innovation Centre
- (vi) Member, FPI COVID 19 Research Team
- (vii) Member, Drone-Building Committee.
- (viii) Assistant SIWES/IT Coordinator.
- (ix) Technical Session Anchor Man for the First International Conference- Federal Polytechnic Ilaro
- (x) Member, Departmental Quality Assurance Committee.
- (xi) Member, Departmental Lab/Workshop Equipment Inventory Committee.
- (xii) Member, Departmental Committee for Equipment Sourcing, Collation and Utilization.

**7. Services outside the Federal Polytechnic, Ilaro**

- (i) Technical Department at Foursquare Gospel Church, Oja-Oba, Lagos State
- (ii) Pastor's Class Sunday School Teacher at Foursquare Gospel Church, Riverside Alaraba, Ilaro, Ogun State

**8. Scholarship/Fellowship & Prizes (if applicable)**

NIL

**9. Academic Publications**

**a. Journal Publications**

Odunlami, S. A., Jesusina, B. M., Akintade, J. O., Chapi, S. P., Udoh, U.J., **Balogun, A. B.**, Afolayan, A. O., Ogunyemi, J., Adetona, Z. A., Oloyede, E. O., Fakeye, A. B., Okusanya, M. A., Olasina, J. R., Jayeoba, B. O., Ajetunmobi, D. T., Ibrahim, G.W., & Oloyo, R. A. (2024). Design and Construction of a Prototype Mechanical Ventilator for Rural Communities in Poor Countries. *International Journal of Women in Technical Education and Employment*, 5(2), 1 – 11.  
<https://fpiwitedjournal.federalpolyilaro.edu.ng/administrator/docs/5197409.pdf>

**Balogun, A. B.**, & Oderinde, M. O. (2024). Renewable Energy and Sustainable Agriculture Development in Nigeria: Opportunities, Challenges, and Prospects [Journal-article]. *International Journal of Innovation Scientific Research and Review*, Vol. 06(Issue 05), 6392–6396. <http://journalijisr.com/sites/default/files/issues-pdf/IJISRR-1572.pdf>

Olusegun Adeniji, Adetona Z. A. & **Balogun A. B.** (2023). Design and Construction of a Low-cost, Three-axis Computer Numerical Control (CNC) Machine. *Iconic Research And Engineering Journals*, 7(3), 348-353. Retrieved from <https://www.irejournals.com/formatedpaper/1705070.pdf>

**b. Book Chapter/Book Publications**

NIL

**c. Conference papers**

**Balogun, A. B.** & Sokipriala Jonah (2025). *Empirical and Statistical Characterisation of 28 GHz mmWave Propagation in Office Environments*. Paper presented at the **IEEE International Conference on Communication Networks and Computing (CNC-2025)**, Rajkiya Engineering College Sonbhadra, Uttar Pradesh, India, 29–30 December.

Ayo-Balogun Atinuke Oluwatoyin, **Balogun Ayodeji Bolanle** & Orjime Ann Agunan (2025, April 27 – May 1). *Green Innovation in Agricultural Cooperatives: A Strategic Approach to Sustainable Food Security in Nigeria*. 5<sup>th</sup> International Conference on Food Security and Agricultural Transformation: Innovations and Strategies for Sustainable Economic Growth. The Federal Polytechnic, Ilaro, Nigeria, in collaboration with L'École Polytechnique D'Abomey-Calavi, Cotonou, République du Bénin.

**Balogun, A. B.** & Joseph, E. A. (2024, August 18 – 21). *The Prospects of Hydrogen Power to Transform Nigeria's Energy Industry*. Paper presented at the 2<sup>nd</sup> National Conference on Emerging Technologies & Innovations: Ingredients for the Next Generation Engineering Revolution, NSE, Ilaro Branch, Ogun State, Nigeria

**Balogun, A. B.** & Matthew, T. O. (2023, September 3 – 7). *Maintenance Routine for a Solar Power System*. Paper presented at the 4<sup>th</sup> International Conference On TVET Innovations to Energy, Security, and Economic Challenges in Sub-Saharan Africa., The Federal Polytechnic Ilaro in collaboration with Takoradi Technical University, Takoradi, Ghana.

Adamu, D. & **Balogun, A. B.** (2023, September 3 – 7). *Design and Construction of a Solar Energy Training Aid for Skills and Economic Development in Africa: A Case Study of the Federal Polytechnic Ilaro, Ogun State, Nigeria*. Paper presented at the 4<sup>th</sup> International Conference On TVET Innovations to Energy, Security, and Economic Challenges in Sub-Saharan Africa., The Federal Polytechnic Ilaro in collaboration with Takoradi Technical University, Takoradi, Ghana

**Balogun, A. B.** & Oderinde M. O. (2023, August 7 – 9). *An Online Grading and Evaluation System for Engineering Students*. Paper presented at the 6<sup>th</sup> School of Engineering National Conference on Enhancing Indigenous Engineering and Technological

Innovations for National Development, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

Aiyelabowo, O. P. & **Balogun, A. B.** (2022, Nov 29 – Dec 2). *Motorised Solar-Powered Agricultural Sprayer for Easy and Efficient Farm Spraying*. Paper presented at the 8<sup>th</sup> International Conference and Award Ceremony on Gender Parity, Security and TVET for Sustainable National Development, Yaba College of Technology, Yaba, Lagos State, Nigeria.

**Balogun, A. B.**, Adebajji, S. A., & Idiong, Uduak-Obong (2022, August 16 – 17). *Energy Efficient Automatic Walkway Lighting System Using a Light Dependent Resistor*. Paper presented at the 3<sup>rd</sup> International Conference On Revamping the Economy: The TVET Perspectives, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

Adebajji, S. A., Idiong, Uduak-Obong, & **Balogun, A. B.** (2022, August 16 – 17). *Design and Construction of a Laboratory Digital Timetable Display*. Paper presented at the 3<sup>rd</sup> International Conference On Revamping the Economy: The TVET Perspectives, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

Okeke, H. S., & **Balogun, A. B.** (2022, July 19 – 22). *Design and Construction of a Solar Powered Hand Dryer*. Paper presented at the ASUP Zone C 6<sup>th</sup> National Academic Conference, Federal Polytechnic, Ile-Oluji, Ondo State, Nigeria.

**Balogun, A. B.**, Asogba S. O. & Oderinde M. O. (2021, November 8 – 10). *Remote Wireless Surveillance System for Laboratories in the Department of Electrical Electronics Engineering*. Paper presented at the School of Engineering 5th National Conference On Impact of Engineering and Technological Advancement Towards Achieving SDG 2030 In Nigeria, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

Ogunyemi, J., Ibrahim, G. A., & **Balogun, A. B.** (2021, November 8 – 10). *Design and Construction of Home Automation System Using Arduino Uno*. Paper presented at the School of Engineering 5th National Conference On Impact of Engineering and Technological Advancement Towards Achieving SDG 2030 In Nigeria, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

Okusanya, M. A., Agbongiaban, F.E., **Balogun, A. B.**, & Okusanya P.O. (2021, November 8 – 10). *Foot-Dip Machine: A Prophylactic Measure to The Spread of Zoonotic Diseases*. Paper presented at the School of Engineering 5th National Conference On Impact of Engineering and Technological Advancement Towards Achieving SDG 2030 In Nigeria, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

Oderinde M. O. & **Balogun, A. B.** (2021, November 8 – 10). *Radio Frequency Identification (RFID) Access Control System*. Paper presented at the School of Engineering 5th National Conference On Impact of Engineering and Technological Advancement Towards Achieving SDG 2030 In Nigeria, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

Okusanya, M. A., **Balogun, A. B.**, & Oluwagbayide S. D (2021, September 29 – 30). *Design and Development of an Eco-Friendly Deterrent System (eScarecrow) for Improved Crop Yield*. Paper presented at the School of Pure and Applied Sciences 5<sup>th</sup> National Conference On Food Security and Safety: A Foothold for Development of Sustainable Economy in Nigeria, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

Mbamaluikem, P. O. & **Balogun, A. B.** (2020, November 10 – 11). *Unemployment Reduction Among the Youth in Nigeria Through Technical and Vocational Education and Training*. Paper presented at the 2nd International Conference and Exhibition: Emerging Trends in TVET as a Contributor to Economic Transformation for Global Competitiveness, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

**Balogun, A. B.** & Adebajji, S. A. (2019, November 26 – 28). *Sprinkler Based Weed Control System Using Arduino Microcontroller*. Paper presented at the School of Engineering 4th National Conference on Growing the National Economy Through Technological Advancement, Engineering, Innovation and Application, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

**Balogun, A. B.** & Afunlehin, O. A. (2018, November 5 – 8). *A Portable Modified Power Supply Unit for High-Rated Power Consumption Domestic Appliances Suitable for Solar Power System and Small Generators*. Paper presented at the 1<sup>st</sup> International Conference and Exhibition: Knowledge & Technological Innovation for Global Competitiveness, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

**Balogun, A. B.**, Adebajji, S. A. & Oderinde, M. O. (2018, November 5 – 8). *Smart Motion Detecting Camera Alarm System with Email Notification Using Raspberry Pi Zero W*. Paper presented at the 1<sup>st</sup> International Conference and Exhibition: Knowledge & Technological Innovation for Global Competitiveness, The Federal Polytechnic Ilaro, Ogun State, Nigeria.

Eze, B. E. & **Balogun, A. B.** (2016, November 7 – 10). *Space Communication Protocol*. Paper presented at the 13<sup>th</sup> National Conference of Academic Staff Union of Polytechnics (ASUP): Diversification of the Nigerian Economy amidst Global Economic Crises, Kano State, Nigeria.

**Balogun, A. B.** (2016, October 17 – 19). *Strategies for Repositioning Nigerian Technological Education in 21st Century Using ICT (Information and Communication Technology)*. Paper presented at the 5<sup>th</sup> National Conference of Academic Staff Union of Polytechnics (ASUP) Ilaro Chapter, Ogun State, Nigeria.

#### **d. Workshop Attended**

- *Machine Learning–Based Applied Interdisciplinary Engineering & Technology Ventures: Open-Source Linux–Based Decentralized Artificial Intelligence Systems in Entrepreneurial Technological Ventures by Polytechnic Lecturers - Shaping TVET Transformation and Consulting for Job Creation* organised by NBTE Nigeria and MOC LLC United States. (2025, November)
- *Blackboard Learning Management System (BLMS)*. Training workshop organised by Pole Global Marketing, Nigeria. (2024, August)
- *Education for Sustainable Development Auditor*. Training workshop organised by Students organising for Sustainability UK (SOS-UK), Cheshire, United Kingdom. (2024, July 1)
- *The National Schools and Academies Leaders Show and Exhibition 2024*. Training workshop organised by Institute of Government and Public Policy IGPP (UK), Derby, United Kingdom. (2024, June 20)
- *National workshop on Government-Industry-Academia (GIA) Linkages: Advancing Technological Development in Nigeria*. Training workshop organised at National Centre for Technology Management (NACETEM), an agency of the Federal Ministry of Science and Technology, Headquarters Obafemi Awolowo University Ile-Ife, Osun State, Nigeria. (2021, March 24-25)
- *National Workshop on Science Diplomacy*. Training workshop organised by National Centre for Technology Management (NACETEM), an agency of the Federal Ministry of Science and Technology, Headquarters Obafemi Awolowo University Ile-Ife, Osun State, Nigeria. (2021, March 9-10).
- *Google Digital Skill for Africa*. Training workshop by Konverge Media for all Academic Staff of the Polytechnic, held at the 500 Seater Auditorium, Federal Polytechnic Ilaro, Ogun State. (2019, November 18)
- *A 1-Day In-House Training for the Newly Recruited Staff of Federal Polytechnic Ilaro*. Training workshop for newly recruited staff of the Polytechnic, held at International Conference Centre (ICC), Federal Polytechnic Ilaro, Ogun State. (2019, March 27)
- *Cooperative Integration for Efficient Service Delivery: A Panacea to Promote Business Diversification*. A One-Day seminar/workshop organised for Cooperative Societies & Unions, Federal Polytechnic CICS, Ilaro, Ogun State. (2018, November)
- *Visual Basic, Net, C# and MatLab*. Training workshop by Centre for Information Technology for Staff of the Polytechnic, Federal Polytechnic Ilaro, Ogun State. (2018, March 19 – 30)
- *Ethical Conduct amongst Academic Staff towards Efficient Management of the Federal Polytechnic, Ilaro*. Seminar paper presented at a Two-Day Capacity Building Training Workshop by Fortune Royal Multiconcepts, Federal Polytechnic, Ilaro, Ogun State. (2017, December 20 – 21)
- *Embedded System/Instrumentation Workshop*. Training Workshop by Lenhz Technologies for Staff of the Polytechnic, Federal Polytechnic Ilaro, Ogun State. (2017, Sept 19 – Oct 13)

- *HCDA (Datacom) Engineer & App Development Training*. Training Workshop on organised by Huawei and Federal Government of Nigeria, Lagos, Nigeria. (2017, April 10 – 14).

#### **e. Unpublished Projects & Dissertations**

- Design and Implementation of a Server Based Local Area Network (LAN)
- Design and Implementation of an Intelligent Robbery Alert
- Design and Construction of a Prototype Walk-Through Automated Disinfectant Booth for Poor Economies
- Design and Construction of a Prototype Mechanical Ventilator for Rural Communities in Poor Countries

#### **f. Major Research undertaken**

- mmWave Propagation and Channel Characterisation in Indoor Environments
- Design and Construction of a Prototype Mechanical Ventilator
- Design and Construction of Automated Walk-Through Disinfectant Booth
- Design and Construction of a Mechanical Hand Washing and Sanitizing Machine
- Sprinkler Based Weed Control System Using Arduino Microcontroller
- Smart Motion Detecting Camera Alarm System with Email Notification Using Raspberry Pi Zero W
- A Portable Modified Power Supply Unit for High-Rated Power Consumption Domestic Appliances Suitable for Solar Power System and Small Generators.

### **10. Community Service**

- Yearly medical outreach to communities around Ilaro during Easter.
- Distribution of relief material to aged members of the communities.

### **11. Extra-Curricular Activities**

Reading, travelling and meeting new people

### **12. Referees**

Engr. Peter Aiyelabowo PhD  
 Dean-Elect, School of Engineering.  
 Federal Polytechnic Ilaro, Ogun State, Nigeria  
 +2348034444983  
[peter.aiyelabowo@federalpolyilaro.edu.ng](mailto:peter.aiyelabowo@federalpolyilaro.edu.ng)

Oyadiran Moronke  
 Head of Treasury  
 Royal Exchange General Ins. Co,  
 34/36 Apapa Oshodi Express way, charity. Oshodi.

+2348023167620

[moronke.oyadiran@royalexchangeplc.com](mailto:moronke.oyadiran@royalexchangeplc.com)

Engr. C. U. Okoye PhD

Former HOD/Director RESDEC

Department of Electrical/Electronic Engineering, Federal Polytechnic Ilaro,  
Ogun State.

+2348033894973

[cletus.okoye@federalpolyilaro.edu.ng](mailto:cletus.okoye@federalpolyilaro.edu.ng)