

Curriculum Vitae

1. Biodata

- a. Name: **Aliu, Olaniyi H.**
- b. Gender: Male
- c. Local Government of Origin: Akoko North East
- d. State of Origin: Ondo
- e. Nationality: Nigeria
- f. Marital Status: Married
- g. Religion: Islam
- h. Contact Address: Department of Computer Engineering, The Federal Polytechnic Ilaro, Ogun State.
- i. Email Address: olaniyi.aliu@federalpolyilaro.edu.ng
- j. Telephone Number: **08068287517**

2. Academic Qualification with Dates:

- 1. M.Eng Computer Engineering. Federal University, Oye Ekiti 2024
- 2. B.Eng Computer Engineering Ekiti State University, Ado Ekiti 2016
- 3. Senior Secondary School Certificate FSTC, Ikare-Akoko 2009
- 4. Primary School Certificate GTN/PS, Ikare-Akoko 2003

3. Membership of Professional Body:

- 1. Council for the Regulation of Engineering in Nigeria.(COREN) 2026
- 2. International Association of Engineers (IAENG) 556051 2026
- 3. Nigeria Society of Engineering (NSE) 65570 2024

4. Working Experience:

a. Academic Experience

- I. **Lecturing: Lecturer II**, Department of Computer Engineering. The Federal Polytechnic, Ilaro, Ogun State.

Courses Taught:

- ✧ Software Engineering
- ✧ Electronic Design and Prototyping
- ✧ Computer Hardware System Design
- ✧ Introduction to Computers and Information Technology
- ✧ Electrical Measurement and Instrumentation I
- ✧ Computer Hardware I
- ✧ Digital Computer Fundamental I
- ✧ Introduction to Digital Signal Processing

II. Research Interest:

- a) Artificial Intelligence.
- b) Data Analysis.
- c) Machine Learning.

III. PROJECTS SUPERVISION

1. IOT Based Plant and Irrigation Monitoring System.
2. Real-Time IoT Anomaly Detection System Using Machine Learning Models

b. Administrative Experience:

i. Departmental DEO

Acting Departmental Examination Officer of Computer Engineering Department
2023-Till date

5. Online Professional Certificate

➤ Effective Presentation	2025
➤ Blackboard LMS	2024
➤ Business Analysis	2022
➤ Fundamentals of Network Communication	2020
➤ Introduction to TCP/IP	2020
➤ Understanding Research Methods	2020
➤ Front End Web Developer	2018
➤ Website Designing & Hosting	2018

6. Academic Publications

a) Journal Publications

1. Olasina, J. R., and **Aliu, O.H.** (2025). Fuzzy-Enhanced Lightweight CNNs for Culturally Relevant Food Classification: Advancing Assistive Technology for Visually Impaired Nigerians. *Systemic Analytics*, 3(3), 164-176. <https://doi.org/10.31181/sa33202553>
2. Adaramola, O. J. and **Aliu, O. H.** (2025). Evaluating the Impact of Denial-of-Service (DoS) Attacks on Enterprise Networks Using Optimized Network Engineering Tools (OPNET 14.5) and Machine Learning. *International Journal of Scientific Research in Network Security and Communication (IJSRNSC)*. Vol.13, Issue.2, pp.01-11, ISSN: 2321-3256 (Online) . Available online at: <http://www.ijsrns.org>
3. **Aliu, O.H.** and Olayiwola, J. O. (2025). Detection and Avoidance of Early Flood using Internet of Things (IoT). *International Journal of Women in Technical Education and Employment (IJOWITED)*. Vol. 6 (1). pp:31-37. ISSN:2811-1567 URL: <http://fpiwitedjournal.federalpolylilaro.edu.ng>
4. Olasina, J. R. and **Aliu, O. H.** (2024). Development of Convolutional Neural Network (CNN)-Based Automatic Food Classification (AFC) Model for Visual Impairments of Nigerians. *Applied Mathematics, Modeling and Computer Simulation C.-H. Chen et al. (Eds.)*. pp. 316-324 (Scopus Indexed).
5. Olasina, J. R. and **Aliu, O. H.** (2024). Mathematical Modeling and Simulation of Composite Wireless Channels for QAM Based Image Transmission and Datasets Generation. *Applied Mathematics, Modeling and Computer Simulation C.-H. Chen et al. (Eds.)*. pp. 606-615 (Scopus Indexed).
6. Olayiwola, J.O and **Aliu, O.H.** (2022). Cellphone Network Jammer Circuit Using NE555 Timer. *International Journal of Women in Technical Education and Employment (IJOWITED)*. Vol. 3 (1). pp:164-171. ISSN:2811-1567 URL: <http://fpiwitedjournal.federalpolylilaro.edu.ng>
7. Akingbade, L.O. and **Aliu, O.H.** (2022). A review on Repair and Maintenance of a Wireless Network-Based System. *International Research Journal of Modernization in Engineering Technology and Science (IRJETS)*. Vol. 4(10) Pp. 1612-1618. ISSN (Online): 2582-5208.

b) National/International Conference Papers

1. **Aliu, O. H.,** and Olayiwola, J. O. (2026). Predicting Extreme Events Caused By Climate Change In Nigeria Using Machine Learning And Reanalysis Of Climate Data. *15th International Zeugma Congress On Scientific Research*. 19-21st, January 2026 / Gaziantep, Türkiye
2. **Aliu, O. H.,** and Olasina, J. R. (2026). A Machine Learning–Based Predictive Framework For Analyzing Tourist Flow Patterns In Sustainable Smart Ecological Cities. *The 12th International Hasankeyf Scientific Research and Innovation Congress*. 30-31st January, 2026. Batman, Türkiye
3. **Aliu, O. H.,** and Olasina, J. R. (2025). A Streamlined Machine Learning Method For Predicting Urban Heat Island Intensity In Nigerian Cities Using Environmental And Demographic Factors. *The 5th International World Energy Conference (IWECE)*. 12–13th, December, 2025 / Kayseri, Türkiye
4. **Aliu, O. H.,** and Olasina, J. R. (2025). Exploring Artificial Intelligence In Creative Digital Art Design With Publicly Available Image Datasets. *The International Art and Design Symposium*, Istanbul Arel University, Istanbul, Türkiye. 24th-25th, October, 2025.
5. Olayiwola, J.O. and **Aliu, O. H.** (2025). Prediction of Fungal Risk Due to Leaf Wetness using Machine Learning Algorithms. *International Congress on Rangeland & Forage Crops-III*, Aydin Adnan Menderes University, Didim, Türkiye. 12th-14th, September, 2025.
6. Ogunyinka, O. I. and **Aliu, O. H.** (2025). A Comparative Analysis Of Lightweight Convolutional Neural Network Architectures For Accurate Poultry Disease Identification. *The 7th International Congress On Innovative Approaches In Scientific Research*, Şanlıurfa, Türkiye. 19th-21st, October, 2025.
7. Olasina, J. R. and **Aliu, O. H.** (2025). Fuzzy-Enhanced Lightweight CNNs for Culturally Relevant Food Classification: Advancing the Assistive Technology for Visually Impaired Nigerians. *1st International Society of Fuzzy Sets Extensions and Applications Conference (ISFSEA)*. 5th - 6th May, 2025.
8. **Aliu, O. H.** and Akinleye, O. A. (2025). *Impact Of Cybercrime On Academic Achievement Among Tertiary Institution Students In Ogun State, Nigeria*. *International Ohrid Scientific Researches And Innovation Congress*, North Macedonia. 8th - 9th March, 2025.
9. **Aliu, O. H.** and Olayiwola, J.O. (2025). Artificial Intelligence’s Role In International Security And Crisis Management. *6th International Conference on Globalization and International Relations*, New York, USA. 3rd March, 2025.
10. Olasina, J. R. and **Aliu, O. H.** (2024). Design and Implementation of a Genetic-Algorithm-based Automatic Time Tabling System. *2nd National Conference of Nigerian Society of Engineers, Ilaro Branch on Emerging Technologies and Innovations: Ingredients For the Next Generation Engineering Revolution*. 18th - 21st August, 2024.
11. Olayiwola, J.O. and **Aliu, O. H.** (2023). Waste Management with the Application of Deep Learning. *6th School of Engineering National Conference on Enhancing Indigenous Engineering and Technical Innovations for National Development*. The Federal Polytechnic Ilaro, Ogun State, Nigeria. 7th- 9th August, 2023.
12. **Aliu, O. H.** and Adamu, D. (2022). Bitcoin Mining Technologies and Their Effect As a Form of Investment. *3rd International Conference on Revamping the Economy: The TVET Perspectives*. The Federal Polytechnic Ilaro, Ogun State, Nigeria. 16th-17th August, 2022.
13. **Aliu, O. H.** and Akingbade L.O. (2021). 3D Printing Technologies and it’s Application in Engineering. *5th National Engineering Conference on Impact of Engineering and*

Technological Advancement Towards achieving SDG 2030 In Nigeria. The Federal Polytechnic Ilaro, Ogun State, Nigeria. 08TH-10TH November, 2021.

7. Workshops Attended

1. Two Days Workshop on The Role of Cooperative Society in Diversification of Membership Economy. Held at the Conference Hall of Batolat Konsults, Ibadan, Oyo State. November, 12-14th, 2025.
2. Four Day Training Workshop on Understanding and Implementing the UNESCO Guidance for Generative AI in Education and Research. Organized by National Open University of Nigeria (NOUN), in conjunction with UNESCO. October, 9th, 16th, 23rd & 30th, 2024.
3. Hands-On Training Session: Designed to equip educators with the Basic Computer Literacy Skills and Essential Skills to effectively use Moodle LMS for teaching and learning. Organized by The Centre for Open, Distance and Flexible e-Learning (CODFeL) in Collaboration with The Centre for Human Resource Development (CHRD). June 13th, 2024.
4. Three Day Training Programme on Effective Questions Setting with Emphasis on Computer-Based Examinations. Held at the International Conference Centre, Federal Polytechnic Ilaro, Ogun State. Dec. 13-15th, 2022.
5. Two Day Capacity Building Training Workshops on Ethical Conduct amongst Academic Staff towards Efficient Management of the Federal Polytechnic Ilaro. Held at the International Conference Centre, Federal Polytechnic Ilaro, Ogun State. Dec. 20-21st, 2020.
6. Two Day Workshop on Teaching Methodology, organized by the management of the institution for Academic Staff. Held at the International Conference Centre, Federal Polytechnic Ilaro, Ogun State. February 12th - 13th, 2020.
7. One Day Workshop For Newly Recruited Staff. Held At The International Conference Centre, Federal Polytechnic, Ilaro, Ogun State. March 25th, 2020.
8. Workshop on Advanced Digital Appreciation Programme for Tertiary Institution by Digital Bridge Institute. Held at Federal Polytechnic Ilaro, Ilaro Ogun State. 30th November - 4th December, 2020.

9. **Extra-curricular Activities:** Soccer, Music and Reading.

9. REFEREES

1. ENGR. O. J ADARAMOLA

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Ogun State. Phone: +2347032730955

2. ENGR. DR. AYODEJI FASIKU

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Ekiti State. Phone: +2348034133659