

# Curriculum Vitae

## 1. Biodata

- a. Name: **Aliu, Olaniyi Habib**  
b. Date of Birth: 28th October, 1992  
c. Place of Birth: Ikare-Akoko  
d. Gender: Male  
e. Local Government of Origin: Akoko North East  
f. State of Origin: Ondo  
g. Nationality: Nigeria  
h. Marital Status: Married  
i. Number of Children: 1  
j. Religion: Islam  
k. Contact Address: Department of Computer Engineering, The Federal Polytechnic Ilaro, Ogun State.  
l. Email Address: [olaniyi.aliu@federalpolyilaro.edu.ng](mailto:olaniyi.aliu@federalpolyilaro.edu.ng)  
m. Telephone Number: **08068287517, 07031047240**  
n. Present Position: **Lecturer II**  
o. Date of Last Promotion: January 1st, 2026

## 2. Institutions Attended with Dates:

- I. Federal University, Oye Ekiti, Ekiti State Nigeria 2020-2024  
II. Ekiti State University, Ado Ekiti, Ekiti State Nigeria. 2011-2016.  
III. Federal Science and Technical College, Ikare-Akoko, Ondo State, Nigeria. 2003-2009.  
IV. Greater Tomorrow Nur/Pry. School, Ikare-Akoko, Ondo State, Nigeria. 1997-2003.

## 3. 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

## 4. Membership of Professional Body:

- Nigeria Society of Engineering (NSE) 65570 2024

## 5. Working Experience:

### a. Academic Experience

- I. **Lecturing: Lecturer II**, Department of Computer Engineering. The Federal Polytechnic, Ilaro, Ogun State. 2019 –to-date.

### 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) Computer Maintenance and Repair.

## 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 Assistant DEO

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

## 6. 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

## 7. Academic Publications

### a) Journal Publications

Olasina, J. R., & Aliu, O. H. (2026). *Mobile application-based management of student industrial work experience scheme (SIWES) in engineering education* (pp. 66–92). In B. Idrizi (Ed.), *Internet of things and artificial intelligence: Modern applications*. Halic Publishing House. <https://doi.org/10.5281/zenodo.18380540>

Aliu, O. H., & Akinleye, O. A. (2025). A soft membership prediction model for partial facial expression recognition employing CNN and fuzzy logic. In M. Asilsoy (Ed.), *Intelligent systems and applied AI: Innovations in robotics, vision, health, and digital*

*transformation* (pp. 183–202). Liberty Publishing House.  
<https://doi.org/10.5281/zenodo.16927850>

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>

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>

**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://fpwitedjournal.federalpolylilaro.edu.ng>

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).

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).

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://fpwitedjournal.federalpolylilaro.edu.ng>

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**

**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

**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 (IWEC)*. 12–13th, December, 2025 / Kayseri,Türkiye

- Aliu, O. H.,** and Olasina, J. R. (2025). Assessing The Ethical And Environmental Implications Of Energy Consumption In Machine Learning Training. *The 6th International Ethics Congress*, Ankara, Turkiye. 8th-9th, December, 2025.
- Aliu, O. H.,** and Olasina, J. R. (2025). Integration Of Clinical Biochemistry And Machine Learning In Improving Diagnostic Accuracy Of Human Liver Disorders. *The 4th International Congress Of Veterinary Biochemistry And Clinical Biochemistry*. September 04-07, 2025 / Sivas, Türkiye
- 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, Turkiye. 24th-25th, October, 2025.
- 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, Turkiye. 12<sup>th</sup>-14<sup>th</sup>, September, 2025.
- Olorunnipa, S. O. and **Aliu, O. H. (2025)**. Enhancing Public Service Delivery With Artificial Intelligence: Policy Opportunities And Challenges In Developing Nations. *The 18<sup>th</sup> ISPEC International Conference on Agriculture, Animal Science & Rural Development*, Necmettin Erbakan University, Konya, Turkiye. 24th-26th, October, 2025.
- 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, Turkiye. 19th-21st, October, 2025.
- Ogunyinka, O. I. and **Aliu, O. H. (2025)**. Investigating an Enhanced Deep Learning Ensemble Model for Automated Poultry Disease Detection Using Multi-Stage Lightweight CNNs. *A paper presented at the 5th International Conference, on Food Security and Agriculture Transformation: Innovations and Strategies for Sustainable Economic Growth. The Federal Polytechnic Ilaro, Ogun State, Nigeria in collaboration with Ecole Polytechnique Universite D'Abomey-Calavi, Cotonou, Republic of Benin.* 27<sup>th</sup>-30<sup>th</sup> April, 2025.
- 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. *1<sup>st</sup> International Society of Fuzzy Sets Extensions and Applications Conference (ISFSEA)*. 5<sup>th</sup> - 6<sup>th</sup> May, 2025.
- Aliu, O. H.** and Olayiwola, J. O. (2025). Evaluating the Effectiveness of Digital Teaching Methods on Student Academic Performance in Tertiary Institutions. *International Scholarship of Teaching and Learning Congress*, Istanbul, Turkiye. 18<sup>th</sup> - 20<sup>th</sup> April, 2025.
- Olasina, J. R. and **Aliu, O. H. (2025)**. Engineering an Automated Model for Food Classification (CNNAFCM) Based on Pictures of Nigeria Indigenous Lunches with the Purpose of AI in Agriculture. *4<sup>th</sup> SIVAS international Conference on Scientific and Innovation Research*, Turkiye. 30<sup>th</sup>-31<sup>st</sup> May, 2025.

- 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.* 8<sup>th</sup> - 9<sup>th</sup> March, 2025.
- Aliu, O. H.** and Olayiwola, J.O. (2025). Artificial Intelligence's Role In International Security And Crisis Management. *6<sup>th</sup> International Conference on Globalization and International Relations, New York, USA.* 3<sup>rd</sup> March, 2025.
- Aliu, O. H.** and Olayiwola, J.O. (2025). AI-Driven Biochemical Carbon Sequestration Strategies Using Deep Learning And Remote Sensing. *EJONS 18<sup>th</sup> International Congress: Artificial Intelligence Trends: Theory to Practice, New Delhi.* 10<sup>th</sup> -11<sup>th</sup> February, 2025.
- Olasina, J. R. and **Aliu, O. H.** (2024). Design and Implementation of a Genetic-Algorithm-based Automatic Time Tabling System. *2<sup>nd</sup> National Conference of Nigerian Society of Engineers, Ilaro Branch on Emerging Technologies and Innovations: Ingredients For the Next Generation Engineering Revolution.* 18<sup>th</sup> - 21<sup>st</sup> August, 2024.
- Olayiwola, J.O. and **Aliu, O. H.** (2023). Waste Management with the Application of Deep Learning. *6<sup>th</sup> School of Engineering National Conference on Enhancing Indigenous Engineering and Technical Innovations for National Development.* The Federal Polytechnic Ilaro, Ogun State, Nigeria. 7<sup>th</sup>- 9<sup>th</sup> August, 2023.
- Aliu, O. H.** and Olayiwola, J. O. (2023). Classification of Driver Drowsiness Detection Using a Lightweight Neural Network Model. A paper presented at the *4<sup>th</sup> International Conference*, The Federal Polytechnic Ilaro, Ogun State, Nigeria in collaboration with Tarkoradi Technical University, Takoradi, Ghana. 3<sup>rd</sup>- 7<sup>th</sup> September, 2023.
- Aliu, O. H.** and Olayiwola, J. O. (2022). Digital Marketing and Its Impact on Society. *2<sup>nd</sup> National Conference of School of Communication and Information Technology on Emerging Trends in Information and Communication Practices For Societal Advancement.* The Federal Polytechnic Ilaro, Ogun State, Nigeria. 19<sup>TH</sup>-22<sup>TH</sup> July, 2022.
- Aliu, O. H.** and Adamu, D. (2022). Bitcoin Mining Technologies and Their Effect As a Form of Investment. *3<sup>rd</sup> International Conference on Revamping the Economy: The TVET Perspectives.* The Federal Polytechnic Ilaro, Ogun State, Nigeria. 16<sup>th</sup>-17<sup>th</sup> August, 2022.
- Aliu, O. H.** and Akingbade L.O. (2021). 3D Printing Technologies and it's Application in Engineering. *5<sup>th</sup> National Engineering Conference on Impact of Engineering and Technological Advancement Towards achieving SDG 2030 In Nigeria.* The Federal Polytechnic Ilaro, Ogun State, Nigeria. 08<sup>TH</sup>-10<sup>TH</sup> November, 2021.

## 8. Workshops Attended

- 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.

- 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.
- 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. 13-15<sup>th</sup>, 2022.
- 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. 20-21<sup>st</sup>, 2020.
- 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 12<sup>th</sup> - 13<sup>th</sup>, 2020.
- One Day Workshop For Newly Recruited Staff. Held At The International Conference Centre, Federal Polytechnic, Ilaro, Ogun State. March 25<sup>th</sup>, 2020.
- Workshop on Advanced Digital Appreciation Programme for Tertiary Institution by Digital Bridge Institute. Held at Federal Polytechnic Ilaro, Ilaro Ogun State. 30<sup>th</sup> November - 4<sup>th</sup> December, 2020.

#### **c. Unpublished Project And Dissertations**

- Automatic Examination Timetable System Using Genetic Algorithm and Graph coloring Approach.

#### **d. Major Research Undertaken**

- Automatic Examination Timetable System Using Genetic Algorithm and Graph coloring Approach.

### **9. Extra-curricular Activities:**

- Soccer,
- Music and
- Reading.

### **10. REFEREES**

#### **1. ENGR. O. J ADARAMOLA**

Department of Computer Engineering, The Federal Polytechnic Ilaro, Ilaro  
Ogun State. Phone: +2347032730955

#### **2. ENGR. DR. AYODEJI FASIKU**

Department of Computer Engineering, Ekiti State University, Ado-Ekiti,  
Ekiti State. Phone: +2348034133659