



CURRICULUM VITAE

A. GENERAL INFORMATION

1. **Name:** LASISI Hammed Oyebamiji
2. **Date and Place of Birth:** November 25, 1976; Iragbiji, Osun State.
3. **Gender:** Male
4. **Nationality:** Nigerian
5. **State of Origin:** Osun
6. **Local Government Area:** Boripe
7. **Marital Status:** Married
8. **Names and Ages of Children (if any):**
 - (i) Oyebamiji Aishat Monisola (22 years)
 - (ii) Oyebamiji Teslim Ibukun (18 years)
 - (iii) Oyebamiji Faridah Oore (14 years)
 - (iv) Oyebamiji Al-Ameen Jomiloju (11 years)
9. **Next of Kin (Relationship):** Mrs. Oyebamiji Moradeke (08039582806) (Wife)
10. **Permanent Contact Address:** 1, Gbamila Street, Ajegunle, Iragbiji, Osun State
11. **E-mail Address:** hammed.lasisi@uniosun.edu.ng
12. **Registration with Research Gate:** Yes
13. **Link:** <https://www.researchgate.net/profile/Hammed-Lasisi>
14. **If No, Why:** N/A
15. **Registration with Google Scholar:** Yes
16. **Link:** <https://scholar.google.com/citations?user=smJ1lgYAAAAJ&hl=en>
17. **If No, Why:** N/A
18. **Cell Phone Number:** +234(0) 803 409 4040; +234(0)8056710150
19. **College:** Science, Engineering and Technology
20. **Faculty:** Engineering
21. **Department:** Electrical and Electronics Engineering
22. **Date and Position on First Appointment:** February 19, 2009/Graduate Assistant
23. **Present position and Salary:** Associate Professor; CONUASS 06 step 04
24. **Date of Present Position (Promotion):** 1st October, 2022/Promotion
25. **Is your appointment confirmed?** Yes
26. **Date of Confirmation of Appointment:** 19th March, 2019

B. EDUCATIONAL BACKGROUND

1. Educational Institutions Attended with Dates

- | | | |
|------|--|-------------|
| i. | University of Ilorin, Ilorin, Nigeria | 2011 - 2017 |
| ii. | University of Ilorin, Ilorin, Nigeria | 2007 - 2010 |
| iii. | University of Ilorin, Ilorin, Nigeria | 1993 - 2000 |
| iv. | ICHS, Ilare-Ijesa, Osun State, Nigeria | 1985 – 1991 |

2. Academic and Professional Qualifications with Dates

- | | | | |
|------|---|------|----------|
| i. | Ph.D. (Electrical & Electronics Engineering) | 2017 | UNILORIN |
| ii. | COREN Registered Engineer | 2011 | COREN |
| iii. | M. Eng. (Electrical Engineering) | 2010 | UNILORIN |
| iv. | B. Eng. (Electrical Engineering) (2-1 Division) | 2000 | UNILORIN |
| v. | West African Senior School Certificate | 1991 | WAEC |

3. Other Relevant Qualifications

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|--|------|-------|
| COREN Registered Engineer (Electrical) R. 21879 | 2011 | COREN |
|--|------|-------|

4. Honours, Awards and Distinctions:

- | | | |
|------|--|------|
| i. | Award of Excellence, Man O' War Nigeria, UNOSUN Command | 2019 |
| ii. | Award of Excellence, Rotaract Club, Iragbiji | 2017 |
| iii. | Most Distinguished Service Award, Rotaract Club, UNIOSUN | 2017 |
| iv. | Osun State University's Special Doctoral Staff Training Fellowship | 2007 |
| v. | Best student, Master of Engineering (Electrical), University of Ilorin | 2010 |
| vi. | Best graduating student, Ilare Community High School, Osun State | 1991 |

5. Research Fellowships with Dates

- | | | |
|------|--|--------|
| i. | Principal researcher; Tertiary education trusts fund (TETFund) Research Grant: Development of Interference Conflict Management Technique for GSM Quality of Service Improvement in Co-located Base Transceiver Stations | (2015) |
| ii. | Tertiary education trust fund (TETFund) Academic Staff Training and Development Grant, utilized for Ph.D Sponsorship at the University of Ilorin, Nigeria | (2011) |
| iii. | Tertiary education trust fund (TETFund) Academic Staff Training and Development Grant, utilized for Master of Engineering Sponsorship at UNILORIN, Nigeria | (2009) |

C. WORK EXPERIENCE OUTSIDE THE UNIVERSITY SYSTEM

- | | | |
|------|---|-------------|
| i. | Technical Officer: CITECO Technical Limited, Ikeja, Lagos, Nigeria | 2007 |
| ii. | Teacher, Cornerstone College, Ifon-Osun, Osun State, Nigeria | 2003 - 2007 |
| iii. | Assistant Site Supervisor, Jigawa State Electricity Board, Dutse, Nigeria | 2000 - 2001 |
| iv. | National Youth Service Corps (NYSC) | 2000 - 2001 |
| v. | Fatunde Elect/Elect Works, Orile Agege, Lagos, Industrial Trainee | 1998 |
| vi. | Jumade Associate Konsult, Orile Agege, Lagos, Industrial Trainee | 1997 |

D. WORK EXPERIENCE IN OTHER UNIVERSITIES

- | | | |
|-----|--|--------------|
| i. | External Examiner, LAUTECH, Ogbomoso (12 M. Tech examined) | 2020 to Date |
| ii. | UNIOSUN Representative, OSCOTEC, Esa-Oke Governing Council | 2022 to Date |

E. WORK EXPERIENCE IN OSUN STATE UNIVERSITY

- | | |
|------------------------|-------------------------|
| i. Associate Professor | 01/10/2022 to date |
| ii. Senior Lecturer | 01/10/2018 - 01/10/2022 |
| iii. Lecturer I | 01/10/2015 - 01/10/2018 |
| iii. Lecturer II | 15/12/2011 - 01/10/2015 |
| iv. Assistant Lecturer | 29/07/2010 - 15/12/2011 |
| v. Graduate Assistant | 19/02/2009 - 29/07/2010 |

F. CO-CURRICULAR PROFESSIONAL EXPERIENCE

- i. Actively participating in all the professional sessions of the Nigerian Society of Engineers, at the Osogbo branch and at the National level
- ii. Involve actively in all the activities of the Institute of Electrical and Electronics Engineers, at the Osogbo branch and at the National Level

G. MEMBERSHIP OF PROFESSIONAL BODIES

1. National

- i. Council for the regulation of Engineering in Nigeria, COREN, (*Member*)
- ii. Nigerian Society of Engineers (*Corporate Member*)
- iii. Institute of Electrical and Electronics Engineers (*Corporate Member*)

2. International

- i. Institute of Electrical and Electronics Engineers (*Corporate Member*)

H. SERVICES

1. OSUN STATE UNIVERSITY:

a) Department of Electrical and Electronic Engineering

- | | |
|---|-----------------------|
| i. Ag. Head of Department | 01/08/2019-31/07/2020 |
| ii. Departmental Coordinator | 01/08/2018-31/07/2019 |
| iii. Member, departmental financial committee | 2017 till date |
| iv. Departmental final year project coordinator | 2015 till date |
| v. Member, departmental curriculum review committee | 2015 |
| vi. Departmental Coordinator | 2013-2015 |
| vii. Departmental Examination Officer | 2010-2013 |
| viii. Students' Academic Advisory | 2009 till date |

b) Faculty of Engineering

- | | |
|--|----------------|
| i. Chairman, Faculty Welfare Committee | 2016 till date |
| ii. Member, Faculty Academic Board | 2010 till date |
| iii. Member, Committee on Alternative Power Supply | 2009-2010 |
| iv. Member, Faculty Postgraduate Board | 2018 till date |

c) College of Science, Engineering and Technology

- | | |
|---|----------------|
| i. Member, College Academic Board | 2010 till date |
| ii. Member, College Committee on Alternative Power Supply | 2009-2010 |
| iii. Member, College Postgraduate Board | 2018 till date |

2. COMMUNITY

- i. Chairman, power & energy committee, Alegun, Osogbo 2012 till date
- ii. Member, Ajegunle Development Forum, Iragbiji, Osun State 2010 till date
- iii. Staff Adviser, Man O' war Nigeria, UNIOSUN Command 2019 till date

3. NATIONAL

- i. JAMB proctor 2021
- ii. INEC polling Officer in 2015 General Elections 2015
- iii. National Youth Service Corps 2000–2001

4. INTERNATIONAL

Nil

I. COURSES TAUGHT DURING THE CURRENT ACADEMIC SESSION

	Code	Title	Units
i.	EEE 201	Applied Electricity I	2
ii.	EEE 202	Applied Electricity II	2
iii.	EEE 291	Applied Electricity Laboratory I	1
iv.	EEE 292	Applied Electricity Laboratory II	1
v.	EEE 307	Group Design I	1
vi.	EEE 403	Group Design II	1
vii.	EEE 501	Students' Project I	3
viii.	EEE 529	Personal and Mobile Communications	3
ix.	EEE 514	Telecommunications Engineering	3
x.	EEE 502	Students' Project II	3
xi.	EEE 611	Electrical Circuit Theory	3
xii.	EEE 626	Digital Electronics	3
xiii.	EEE 702	Project Management	3
xiv.	EEE 709	Advanced Digital Electronics	3
xv.	EEE 728	Wireless and Mobile Communication	3
xvi.	EEE 730	RF Subsystems & Satellite Communications	3
xvii.	EEE 803	Advance Project Management	3

J. GRADUATE STUDIES SUPERVISION

i. Doctor of Philosophy

- a. Adebayo A. K. (ENP/19/20/H/0053). Development of an Adaptive and Deep Intelligent Decision Making Algorithm for Spectrum Occupancy Prediction in Cognitive Radio Networks. – *Completed*
- b. Awofolaju T. T. (2020/33353). Development of Prediction Models for Mobile Telecommunications Operators' Quality of Service Using Ensemble and Artificial Neural Networks Techniques. – *Completed*
- c. Adeagbo F. M. (2022/44233). Performance analysis of Multiple Modulation Schemes and fading Channels on Enhanced Underwater Communication. – *Completed*
- d. Aderinkola B. F. (2022/44221). Improvement of Spectral Efficiency of Reconfigurable Intelligent Surface-Aided Millimeter Wave Non-Orthogonal Multiple Access Communications. – *on-going*
- e. Asafa M. O. (2022/44233). Design and Optimization of an Energy-Efficient Wireless powered Mobile Edge Computing Networks. – *on-going*.

- f. Afolabi L. O. (2023/52702). Optimization of Cognitive Radio Spectrum Utilization for Enhanced Performance and Interference Reduction. – *on-going*
- g. Osobukola A. A. (2022/44151). Development of an Adaptive User Pairing Scheme for Millimeter Wave Non-Orthogonal Multiple Access System. – *on-going*

ii. Master by Long Essay

Nil

iii. Master by Research

- a. Aderinkola B. F. (ENP/19/20/H/0033). Spectrum Utilization and Television White Space Detection in Osun State University's Main Campus. – *Completed*
- b. Adeagbo F. M. (ENP/19/20/H/0041). Enhancement of Generalized Selective Combiner Using Combined Modulation Schemes Over Rayleigh Fading Channel. – *Completed*
- c. Asafa M. O. (ENP/19/20/H/0054). Energy Efficiency Evaluation of Optical and Wireless Access Networks. – *Completed*
- d. Olawumi O.O. (ENP/19/20/H/0036). Channel Estimation Analysis of MIMO Antenna System with Analog-to-Digital Converter. – *on-going*
- e. Osisanya E. M. (2020/32935). Investigation of the Energy Utilization and Emission Characteristics of Colocated and Standalone Base Transceiver Stations. – *Completed*
- f. Adeyemo O. A. (2021/37145). Development of an Unmanned Aerial Vehicle to Ground Communication Devoid Eavesdropping. – *Completed*
- g. Omodeni H. B. (2022/43687). Development of Modified %G Network Model to Enhance High-Density Subscribers. – *on-going*
- h. Oyedara A. A. (2022/43861). Radio Wave Signal Strenght Variation Analysis of an FM Broadcasting Station in Osogbo, Osun State. – *on-going*
- i. Omodeni C. B. (2023/52739). Development of a Machine Learning-Based Anomaly Detection in Telecommunication Networks. – *on-going*
- j. Saliu A. A. (2023/52526). Enhancement of Wireless Communication Using Cross Layer Medium Access Control (MAC) Protocol. – *on-going*
- k. Hussein I. O. (EEE/2017/0019). Development of a Pathloss Prediction Model Using Adaptive Neuro Fussy Inference System (ANFIS) for Enhanced Wireless Performance for 5G Network. – *on-going*
- l. Ogunbode I. O. (2023/52648). IoT Based Intelligent Medication Management System for Remote Vital Sign Monitoring. – *on-going*

iv. Post Graduate Diploma

- a. Boyejo A. D. (ENP/17/18/H/0001). Analysis of Variation in Electromagnetic Radiation of Mobile Equipment in Various Phone Shield Materials. – *Completed*
- b. Sanni L. A. (ENP/16/17/H/0005). Design and Construction of a Bluetooth Controlled Home Automation System. – *completed*
- c. Adeleye M. O (ENP/17/18/H/0005). Design and Construction of a Radio Frequency Identification (RFID) Access Control for a Safe – *completed*
- d. Oyekunle K. O. (ENP/15/16/R/0007). Design and Construction of Automatic Cocoa Beans Dryer. – *Completed.*
- e. Adetayo K. A. (ENP/15/16/R/0012). Design and Construction of Automatic Cocoa Beans Dryer. – *Completed*

K. PUBLICATIONS

- i. **Books (authored/co-authored):** Nil
- ii. Books (edited/co-edited) Nil
- iii. Monographs Nil
- iv. Chapters in books Nil
- v. **Articles in learned journals:**
 1. **Lasisi H. O.**, Abiodun S. S., Olasunkanmi O. J., Mujeeb B., and Tewogbade A. (2025): Design and Implementation of a Solar-Driven Spy Security Motion Detector. *Journal of Engineering and Scientific Research (JESR)* – pISSN: 2685-0338; eISSN: 2685-1695, Vol 7 (1): 24 – 30. <https://jesr.eng.unila.ac.id/index.php/ojs/article/view/216>
DOI: <https://doi.org/10.23960/jesr.v7i1.216> -
[Publisher: Universitas Lampung, Indonesia] [Offshore]
 2. Hussein I. O., **Lasisi H. O.**, Ogungbayi P. R., and Odofin O. M. (2025); Development of a Pathloss Prediction Model Using Adaptive Neuro Fuzzy Inference System(ANFIS) for Enhanced Wireless Performance for 5G Network: *Adeleke University Journal of Engineering and Technology (AUJET)*, Vol. 8 (1): 197-209.
ISSN: 2714-450. <https://aujet.adelekeuniversity.edu.ng/index.php/aujet/article/view/536/386> www.aujet.adelekeuniversity.edu.ng
[Publisher: Adeleke University, Nigeria] [Onshore]
 3. Omodeni H. B., **Lasisi H. O.**, Aderinkola B F., and Omodeni C. B. (2025); Signal-to-Noise Ratio Optimization in 5G Network Architectures using the Pelican Optimization Algorithm: *FUOYE Journal of Engineering and Technology*, Volume 10 (2): 296 – 299. ISSN: 2579-0617 (Paper), 2579-0625 (Online)
<https://journal.engineering.fuoye.edu.ng/index.php/engineer/article/view/1366>
<http://doi.org/10.46792/fuoyejet.v10i2.17>.
[Publisher: FUOYE, Nigeria] [Onshore]
 4. Adeagbo F. M., **Lasisi H. O.**, Aderinkola B. F., Asafa M. O., Olukayode O., Oladepo O., Awofolaju T. T., and Olawuyi A. A. (2025); Analysis on the Impact of Water Parameters Variation for Underwater Communication System: *OAUSTECH Journal of Engineering and Intelligent Technology*, Vol. 1(1): 168-175
https://www.journals.oaustech.edu.ng/det/publication/10-36108_ojeit_5202-10-0181.pdf DOI: 10.36108/ojeit/5202.10.0181.
[Publisher: Olusegun Agagu University of Science and Technology, Nigeria] [Onshore]
 5. **Lasisi H. O.**, Okedere O. B., Osisanya M. E., and Adeagbo F. M. (2024); Comparative Analysis of Power consumption and Emission Characteristics of Co-Located and Stand-Alone Base Transceiver Stations; Osun State, Nigeria as a case Study: *Adeleke University Journal of Engineering and Technology (AUJET)*, Vol. 7(1): 214 - 221. ISSN: 2714-2450.
<https://aujet.adelekeuniversity.edu.ng/index.php/aujet/article/view/412>
[Publisher: Adeleke University, Nigeria] [Onshore]

6. **Lasisi H. O.**, Adebayo A. K., Alawode K. O., Surajudeen-Bakinde N. T., Ajewole T. O. (2024): A Levenberg-Marquardt Based Neural Network Spectrum Occupancy Prediction for UHF (470-670) MHZ Band Services in Osogbo Metropolis. *University of Pitesti Scientific Bulletin: Electronics and Computers Science*, 24 (1): 75-84. <https://bulletin.feccupit.ro/archive/pdf/20240109.pdf> ISSN – 2344 – 2166. **[Publisher: University of Pitesti, Romania] [Offshore]**

7. Adebayo A. K., **Lasisi H. O.**, Alawode K. O., and Surajudeen-Bakinde N. T. (2024): An Assessment of UHF (470-670) MHZ Band Spatial Opportunity for Cognitive Wireless Communication Services. *University of Pitesti Scientific Bulletin: Electronics and Computers Science*, 24 (1): 49-60. Link: https://bulletin.feccupit.ro/archive/view/2024_1_7.html. ISSN – 2344 – 2166. **[Publisher: University of Pitesti, Romania] [Offshore].**

8. Awofolaju, T.T., **Lasisi, H.O.**, Ajewole, T.O., Adebayo, S., Olawuyi, A.A., Adeagbo, F.M. and Asafa, M.O. (2024). Validation of Key Performance Indicators of Mobile Telecommunication Operators Using Ensemble Models and Artificial Neural Networks with Nigerian Communication Commission's Thresholds. *UNIOSUN Journal of Engineering and Environmental Sciences (UJEES)*, 6(1): 61–71. https://ujees.com.ng/publication/vol_6/issue_1/Article_6.pdf DOI: 10.36108/ujees/4202.60.0160 **[Publisher: Faculty of Engineering and Environmental science, Osun State University, Nigeria] [Onshore].**

9. **Lasisi H. O.**, Hussein I. O., Hammed M. B., and Odojin O. M. (2024); Comparative Analysis of the Performance of 3g Networks Voice Service in Ibadan Metropolis: *Journal of Engineering Studies and Research, JESR*. 30(1): 76 - 9. <https://jesr.ub.ro/journal/article/view/440/381> <https://doi.org/10.29081/jesr.v30i1.008> **[Publisher: University of Bacau, Romania] [Offshore].**

10. Adeagbo, F.M., **Lasisi, H. O.**, Aderinkola, B. F., and Asafa, M.O. (2024). The Efficient Performance Of Generalized Selective Combining Techniques on Rayleigh Fading Channel Using Hybridized Modulation Scheme. *UNIOSUN Journal of Engineering and Environmental Sciences (UJEES)*, 6(1): 73-83. https://ujees.com.ng/publication/vol_6/issue_1/Article_7.pdf DOI: 10.36108/ujees/4202.60.0170. **[Publisher: Faculty of Engineering and Environmental science, Osun State University, Nigeria] [Onshore]**

11. Alawode, K. O., Adebayo, A. K., **Lasisi, H. O.**, and Ajewole, T. O. (2024). Spectrum Occupancy Analysis of Active FM Band in Osogbo Metropolis. *UNIOSUN Journal of Engineering and Environmental Sciences (UJEES)*, 6(1): 152 – 169. https://ujees.com.ng/publication/vol_6/issue_1/Article_13.pdf DOI: 10.36108/ujees/4202.60.0131

[Publisher: Faculty of Engineering and Environmental science, Osun State University, Nigeria] [Onshore].

12. Awofolaju, T. T., **Lasisi H. O.**, Ajewole T. O., Olawuyi A. A., Adebayo S., Alawode K. O., and Oladepo O. (2024): Performance Evaluation of Predictive Models for Key Performance Indicators in Telecommunication Networks. *University of Pitesti Scientific Bulletin: Electronics and Computers Science*, 24 (1): 27-34. <https://bulletin.feccupit.ro/archive/pdf/20240104.pdf>
[Publisher: University of Pitesti, Romania] [Offshore].
13. **Lasisi H. O.**, Odofin O. M., Hammed M. B., and Hussein I. O. (2023); Comparative Analysis of Non-Cooperative Spectrum Sensing Techniques in Cognitive Radio Network: *Journal of Engineering Studies and Research, JESR*. 29(4): 50-56. <https://jesr.ub.ro/journal/article/view/422/372>.
[Publisher: University of Bacau, Romania] [Offshore].
14. Adebayo A. K., Surajudeen-Bakinde N. T., Afolabi A. S., Usman A. M., and **Lasisi H. O.** (2023): On the Study of Interference Scenario on TV Broadcast and Wireless Systems for Emergency Communication Networks in TVWS. *Elektrika Journal of Engineering* 22(3): 52-68. https://elektrika.utm.my/index.php/ELEKTRIKA_Journal/article/view/388/282 ISSN 0128-4428 52.
[Publisher: Universiti Teknologi Malaysia (UTM)] [Offshore].
15. Awofolaju T. T., **Lasisi H. O.**, Olawuyi A. A., Oladepo O., and Adebayo S. (2023): Artificial Neural Network Based Prediction of Key Performance Indicators for Mobile Telecommunications. *Journal of Science and Technology (JST)*. 15(2): 43-53. <https://publisher.uthm.edu.my/ojs/index.php/JST/article/view/15261/6195> ISSN: 2229-8460 e-ISSN: 2600-7924.
[Publisher: Universiti Tun Hussein Onn Malaysia (UTHM)] [Offshore].
16. Adeyemo Z. K., Ajulo E. B., Akande D. O., **Lasisi H. O.**, and Ojo S. I. (2023); Improving The Detection of Intrusion in Vehicular Ad-Hoc Networks with Modified Identity-Based Cryptosystem: **TELKOMNIKA Telecommunication Computing Electronics and Control** Vol. 21(5): pp. 1005~1012 ISSN: 1693-6930, <https://telkomnika.uad.ac.id/index.php/TELKOMNIKA/article/view/22207/11715> DOI: 10.12928/TELKOMNIKA.v21i5.22207. Journal homepage: <http://telkomnika.uad.ac.id>.
[Publisher: Universitas Ahmad Dahlan (UAD), Yogyakarta, Indonesia] [Offshore]
17. **Lasisi H. O.**, Oladepo O., Awofolaju T.T. and Olalekan K. G. (2023); Enhancement of Signaling System Number 7 for Improved Quality of Service in Mobile Communication Network: *Adeleke University Journal of Engineering and Technology (AUJET)*, Vol. 6(1): 197 - 204. <https://aujet.adelekeuniversity.edu.ng/i>

ndex.php/aujet/article/view/301/221 ISSN: 2714-2450. www.aujet.adelekeuniversity.edu.ng.

[Publisher: Adeleke University, Nigeria] [Onshore]

18. Olawoyin L.A, Abdul-Rahman M., Nasir F., Oloyede A. A., Adeniran T.C., Imam-Fulani, **Lasisi H. O.**, Ismaeel S. A, and Bashir A. B. (2023); Hybridization of OFDM and Physical Layer Techniques for Information Security in Wireless System: *Sule Lamido University of Science & Technology (SLUJST)*; 6(1&2): 21~29. https://www.researchgate.net/publication/396817098_Hybridization_of_OFDM_and_Physical_Layer_Techniques_for_Information_Security_in_Wireless_System Online ISSN: 2736-0903, Print ISSN: 2736-089X. <https://doi.org/10.56471/SLUJST.V6I.301>. www.slujst.edu.ng.
[Publisher: Sule Lamido University, Nigeria] [Onshore]. <https://slujst.com.ng/>
19. **Lasisi H. O.**, Asafa M. O., Olawumi O. O., and Awofolaju T. T. (2022); Energy Efficiency in Optical-Wireless Access Network Using Dynamic Bandwidth Allocation. *Journal of Energy and Safety Technology*. 5(2): 21-29. <https://jest.utm.my/index.php/jest/article/view/111/66>. eISSN 2637-1030|. **[Publisher: Universiti Teknologi Malaysia (UTM)] [Offshore].**
20. **Lasisi H.**, Adeagbo F., and Aderinkola B. (2022); Enhancement of Generalised Selective Combiner Using Combined Modulation Schemes over Rayleigh Fading Channel: *Journal of Engineering Studies and Research, JESR*. 28(4): 71-77. <https://jesr.ub.ro/journal/article/view/353/335> <https://doi.org/10.29081/jesr.v28i4.008> **[Publisher: University of Bacau, Romania] [Offshore].**
21. Ajewole T. O., Olabode O. E., Akinyele D. O., Amole A. O., Fadipe O. O., Oladepo O., and **Lasisi H.O** (2022); Security Study on Freestanding Minigrid with Multiple Rotary Energy Sources. *Journal of Energy and Safety Technology*. 5(2): 1-14. <https://jest.utm.my/index.php/jest/article/view/98/73>. eISSN 2637-1030|. **[Publisher: Universiti Teknologi Malaysia (UTM)] [Offshore].**
22. **Lasisi H. O**, Ajewole T. O, Oladepo O, and Olabode E. O. (2022); Optimization of Reactive Power Injection on Radial Distribution Network for Improved System Performance: *Nigerian Research Journal of Engineering and Environmental Sciences*; 7(1): 69-81. <https://zenodo.org/records/6721014> ISSN: 2635-3342; e ISSN: 2635-3350. www.rjees.com.
[Publisher: Faculty of Engineering University of Benin, Nigeria] [Onshore].
23. **Lasisi H. O.**, Aderinkola B. F., and Adeagbo F. M. (2022); Spectrum Occupancy Measurement And Analysis At Osun State University Campus, Osogbo, Nigeria: *Journal of Engineering Studies and Research, JESR*. 28(1): 59-66. <https://jesr.ub.ro/journal/article/view/318/293>.
[Publisher: University of Bacau, Romania] [Offshore].

24. Okedere O. B., Oyelami S., Oyewole K. A., Rabiul K. O., **Lasisi H. O.**, Atanda N., and Omojola S. (2022); A Comparative Investigation of the Impact of Two Different Charcoal Stove Configurations on Polycyclic Aromatic Hydrocarbons and Particulate Matter Emissions. *Journal of Energy and Safety Technology*. 5(1): 53 - 61. <https://jest.utm.my/index.php/jest/article/view/112/62>
[Publisher: Universiti Teknologi Malaysia (UTM)] [Offshore].

25. Obiyemi O. O., **Lasisi H. O.**, Oladepo O., Awofolaju T. T and Ibrahim M. A. (2022); A Performance Evaluation of Cellular Mobile Networks: A Case Study of Osun State University. *Adeleke University Journal of Engineering and Technology (AUJET)*, Vol. 5(1): 16 - 24. ISSN: 2714-2450.
<https://aujet.adelekeuniversity.edu.ng/index.php/aujet/article/view/211/143>
www.aujet.adelekeuniversity.edu.ng
[Publisher: Adeleke University, Nigeria] [Onshore].

26. **Lasisi H. O.**, Asafa M. O., Olawumia O. O., and Oyeniran O. R. (2022). Deployment of Sleep and Doze Mode Technique for Energy Conservation in Optical-Wireless Access Network. *Premier Journal of Engineering and Applied Sciences (PJEAS)*, 3 (1): 10-18. ISSN: 2734-3170.
https://www.researchgate.net/publication/392231717_DEPLOYMENT_OF_SLEEP_AND_DOZE_MODE_TECHNIQUE_FOR_ENERGY_CONSERVATION_IN_OPTICAL-WIRELESS_ACCESS_NETWORK#fullTextFileContent
[Publisher: Nigerian Society of Engineers, Nigeria] [Onshore].

27. Oladepo, O., Awofolaju T. T., and **Lasisi, H. O.** (2022). Single and Multiple Placements of Different DG Types On the Power Distribution System. *UNIOSUN Journal of Engineering and Environmental Sciences (UJEES)*, 4(1): 223– 233.
https://ujees.com.ng/publication/vol_4/issue_1/Article_23.pdf DOI: 10.36108/ujees/2202.40.0132.
[Publisher: Faculty of Engineering and Environmental science, Osun State University, Nigeria] [Onshore].

28. **Lasisi H. O.**, Boyejo A. D., Aderinkola B. F., and Adeagbo F. M. (2021). Analysis of Variation in Electromagnetic Radiations across Selected Service Providers and Mobile Equipment in Osogbo, Nigeria. *Premier Journal of Engineering and Applied Sciences (PJEAS)*, 2(2): 8-14. ISSN: 2734-3170.
https://www.researchgate.net/publication/396702166_Analysis_of_Variation_in_Electromagnetic_Radiations_across_Selected_Service_Providers_and_Mobile_Equipment_in_Osogbo_Nigeria#fullTextFileContent
[Publisher: Nigerian Society of Engineers, Nigeria] [Onshore].

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32. Aderinkola, B. F, Olawoyin L. A. and **Lasisi H.** (2018). Appraisal of Quality of Service of Major Mobile Communication Networks Service Provider in Osogbo Meropolis, Osun State, Nigeria. *International Journal of Information Processing and Communication (IJIPC)*. 6(1): 133-145. https://www.researchgate.net/publication/396819721_Appraisal_of_Quality_of_Service_of_Major_Mobile_Communication_Networks_Service_Provider_in_Osogbo_Metropolis_Osun_State#fullTextFileContent **[Publisher: Faculty of Communication and Information Sciences, University of Ilorin, Nigeria] [Onshore]**. <https://ijipc.net.ng/index.php/ijipc>.
33. **Lasisi H.** and Ajisafe A.A. (2013). Evaluation of Security levels of Fingerprint Authentications and conventional PIN systems in Automated Teller Machines. *Annals of Science, Engineering and Technology*. https://www.researchgate.net/publication/396819096_Evaluation_of_Security_levels_of_Fingerprint_Authentications_and_conventional_PIN_systems_in_Automated_Teller_Machines#fullTextFileContent. 3(1): 50-57. **[Publisher: College of SET, Osun State University, Nigeria]. [Onshore]**.

(vi) Review Articles:

34. **Lasisi H. O.**, Adeyemo O. A., and Adeagbo F. M. (2024); Development of an Unmanned Aerial Vehicle to Ground Communication Devoid Eavesdropping: A Review: *Adeleke University Journal of Engineering and Technology (AUJET)*, Vol. 7(1): 259-268. ISSN: 2714-2450. <https://aujet.adelekeuniversity.edu.ng/index.php/aujet/article/view/425/308> www.aujet.adelekeuniversity.edu.ng. **[Publisher: Adeleke University, Nigeria] [Onshore]**
35. **Lasisi H. O.**, Aderinkola B. F., and Adeagbo F. M. (2021). A Review of Spectrum Utilization and TV White Space Detection. *Premier Journal of Engineering and Applied Sciences (PJEAS)*, 2(2):31-40. ISSN:2734 – 3170. https://www.researchgate.net/publication/396822307_A_Review_of_Spectrum_Utilization_and_TV_White_Space_Detection#fullTextFileContent.

[Publisher: Nigerian Society of Engineers, Nigeria] [Onshore].

36. Adediran Y.A., Lasisi H., and Okedere O.B. (2017). Interference management techniques in cellular networks: A review. *Electrical & Electronic Engineering | Review Article Cogent Engineering*, <https://www.tandfonline.com/doi/epdf/10.1080/23311916.2017.1294133?needAccess=true> <http://dx.doi.org/10.1080/23311916.2017.1294133>: 1-10.
[Publisher: Cogent Engineering, Taylor and Francis, UK] [Offshore].

(vii) Refereed Conference Proceedings:

37. Aderinkola, B. F; Lasisi, H. O; Olawoyin, L. A; Adeagbo, M. F; Asafa, M. O. (2024). Quantitative Assessment of Television White Space Spectrum Availability in Osun State, Nigeria: *Proceedings of the 3RD International Conference on Engineering and Environmental Sciences (ICEES), 2024 Organized By Faculties Of Engineering And Environmental Sciences Osun State University (UNIOSUN), Osogbo, Nigeria. pp. 158-166.* <https://journals.uniosun.edu.ng/ujees/issue/view/16/1>
[Publisher: Faculties of Engineering, UNIOSUN, Nigeria] [Onshore].
38. Awofolaju T.T., Lasisi H.O., Oladepo O., Adebayo S., Bada O.M., Olawuyi A.A., and Awofesobi P.K. (2024). Development of Call Setup Success Rate Prediction Model using Ensemble Algorithm: *Proceedings of the 3RD International Conference on Engineering And Environmental Sciences (ICEES), 2024 Organized By Faculties Of Engineering And Environmental Sciences Osun State University (UNIOSUN), Osogbo, Nigeria. pp. 470-479.* <https://journals.uniosun.edu.ng/ujees/issue/view/16/1>
[Publisher: Faculty of Engineering, UNIOSUN, Nigeria] [Onshore].
39. Lasisi H., Aderinkola, B. F., and Olawoyin, L. (2018). Performance Analysis of Traffic Congestion as Index of Quality of Service of Mobile Communication Networks in Osogbo Metropolis, Osun State: *Proceedings of the 1st International Conference on ICT for National Development and Its Sustainability, Faculty of Communication and Information Sciences, University of Ilorin, Ilorin, Nigeria. pp. 571– 585.* https://www.researchgate.net/publication/396823060_PERFORMANCE_ANALYSIS_OF_TRAFFIC_CONGESTION_AS_INDEX_OF_QUALITY_OF_SERVICE_OF_MOBILE_COMMUNICATION_NETWORKS_IN_OSOGBO_METROPOLIS_OSUN_STATE/fullTextFileContent
[Publisher: University of Ilorin, Nigeria] [Onshore].

(viii)	Un-refereed Conference Proceedings:	Nil
(ix)	Book Reviews:	Nil
(x)	Technical Reports:	Nil
(xi)	Patents and Inventions:	Nil
(xii)	Online journal articles:	Nil

L. CURRENT RESEARCH ACTIVITIES

(a) Funded Research:

- i. “Development of Interference Conflicts Management Technique for GSM Quality of Service Improvement in Co-located Base Transceiver Stations: Osogbo, Osun State as Case Study”

(b) Non-funded/Self-sponsored Research:

- i. “Comparative analysis of the economic and environmental benefits of Cell site optimization through site co-location”

M. CONFERENCES ATTENDED (indicating titles of papers presented, if any)

- i. 1st International Conference on Engineering and Environmental Sciences, ICEES) (2021)), Faculty of Engineering and Environmental Sciences, Osun State University, Osogbo.
- ii. 2nd International Conference on Engineering and Environmental Sciences, ICEES) (2019)), Faculty of Engineering and Environmental Sciences, Osun State University, Osogbo.
- iii. 1st International Conference on ICT for National Development and Its Sustainability (ICT4NDS 2018), Faculty of Communication and Information Sciences, University of Ilorin, Ilorin, Nigeria. 17th -20th April, 2018. **Paper presented:** “performance analysis of traffic congestion of mobile communication networks in Osogbo metropolis, osun state
- iv. 3rd IEEE International Conference on Electro-Technology for National Development (NIGERCON), 7-10th November, 2017, Owerri, Nigeria. **Paper presented:** “Application of Hybrid Non-Dominated Sorting Genetic Algorithm-II and Self-Organizing Map Technique to Interference Management in Homogenous Frequency Demand Cellular Network ”
- v. 25th Council for the Regulation of Engineering in Nigeria (COREN) Assembly, 8th - 10th August, 2016, Akure, Nigeria.
- vi. 1st University of Ibadan Technology Conference (UITECH2015), 6th -8th July, 2015, University of Ibadan, Nigeria.
- vii. U6 Consortium 2nd International Conference, 5th to 10th September, : Cape Peninsula University, Cape Town, South Africa;
<https://www.researchgate.net/publication/319109645> (2014) **Paper presented:** Feasibility Study and Development of Infastructural Colocation Scheme for GSM Operators (Case Study: Oshogbo, Nigeria);
- viii. International conference on ICT for Africa (ICT for Africa 2014), 1st-4th October, 2014, Yaoundé, Cameroon.
- ix. 23rd Council for the Regulation of Engineering in Nigeria (COREN) Assembly, 18th -20th September, 2014, Abuja, Nigeria.
- x. 5th African Regional Conference on Engineering Education, 9th-12th September, 2013, University of Lagos, Nigeria.
- xi. Advances in computational Tools for Engineering Applications, ACTEA, December 12th -15th, 2012, Nortre Dame University, Louaize, Lebanon. **Paper presented:** “Development of Stripe Biometric Based Fingerprint Authentication Systems in Automated Teller Machines”.

- xii. 21st Council for the Regulation of Engineering in Nigeria (COREN) Assembly, 4th - 5th September, 2012, Abuja, Nigeria.
- xiii. Seminar on Teaching Methodology in the University System, organized by the College of Science, Engineering and Technology, Osun State University, Osogbo.
- xiv. Training the Trainers Program organized by National Information Technology Development Agency, Abuja at Osun State University, 26th May-3rd June, 2011.
- xv. College of Science, Engineering and Technology Conference 2011, 15th – 18th March, 2011, Osun State University, Osogbo, Nigeria. **Paper presented:** “*Analysis of Cellular Shape and Structure in Mobile Communication*”

N. EXTRA-CURRICULAR ACTIVITIES:

Reading, Farming, Travelling, and Footballing.

O. ANY OTHER RELEVANT INFORMATION:

Nil

P. SUMMARY OF CONTRIBUTION TO KNOWLEDGE

Paper [1] designs and implements a solar-powered spy security system with motion detection capability. The research addresses the limitations of traditional CCTV cameras, providing a more efficient and sustainable solution for home security.

Modelling signal propagation for the deployment and optimization of 5G wireless networks, and research on Signal-to-Noise Ratio Optimization in 5G Network Architectures was done as presented in Papers [2 and 3]. The work proved that traditional empirical models yielded relatively high prediction errors under the test conditions. Machine learning approaches; Random Forest and Gradient Boosting demonstrated improved accuracy, and ANFIS model achieved the best overall performance.

Investigations were conducted on power consumption and emission characteristics, energy efficiency, energy conservation and environmental safety on various mobile networks, as Papers [5, 19, 26, and 30]. The results provide valuable insights for the telecommunications industry, emphasizing the importance of considering environmental factors alongside economic ones in network planning and deployment. These research works contribute to the development of sustainable telecommunications infrastructure by offering comprehensive results, analysis, and recommendations.

As demonstrated in Papers [6, 7, 11, 13, 23, 35, and 37] studies were carried out on the spectrum occupancy, Spatial opportunity, Spectrum occupancy analysis, spectrum sensing, white space spectrum analysis on different networks. It was established that the spectrum is not being used effectively at the time and place of measurement. Thus, as a result that a major portion of the spectrum is underutilized there is ample opportunity for the deployment of new wireless technology applications in the examined band.

Robust research works were executed on network performance analysis, quality of service, call set-up, channel analysis and traffic congestion analysis in series of telecommunication networks and scenarios as in papers [4, 8, 9, 10, 12, 15, 16, 17, 20, 25,

32]. Valuable insights for the development of telecommunications industry were provided based on the results obtained.

As given in papers [14, 31, and 36] research works were done on solving problems of interference management and frequency allocation in cellular networks, thereby improving quality of service. Algorithms were developed thereby providing an optimal frequency allocation that minimizes interference. The developed algorithm can be embedded in software applications for optimal deployment of network resources for base transmission stations.

In paper [33], high-level model for the modification of existing ATM systems to economically incorporate fingerprint authentication system was demonstrated. The system reduces the vulnerabilities experienced in the PIN or password-based system. A more viable method of identifying users' sufficient security level for the ATM systems was exhibited. Hence, the vulnerabilities of the ATM to fraud is reduced.



15/07/25

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Lasisi, Hammed Oyebamiji

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Date