

## PROFILE OF DR. ENGR. AYORINDE JOSEPH OLANIPEKUN

### i. Brief Biography

Dr. Ayorinde Joseph Olanipekun earned a B.Eng. degree in Electrical and Electronics Engineering from the University of Ado-Ekiti, Ado-Ekiti, Nigeria (now called Ekiti State University) in 2000. He also holds Ph.D. and M.Eng. degrees in Electronics and Control Systems Engineering from the Federal University of Agriculture, Abeokuta (FUNAAB), Nigeria, awarded in 2023 and 2013 respectively. Dr. Olanipekun has a strong academic and professional background, with diverse experiences in the field. He briefly worked as a tutor with the Teaching Service Commission, Ondo State, Nigeria, from 2002 to 2007. Additionally, he served as a Laboratory Technologist and Scientist in the Electrical and Electronics laboratory at FUNAAB from 2008 to 2017 before transitioning into academia in 2017. His expertise lies in electronics and control system design and application, software programming, and the development of solar-powered control systems. Dr. Olanipekun is currently a dedicated faculty member at the Federal University of Agriculture, Abeokuta, Nigeria.

Professionally, Dr. Olanipekun is a registered engineer with the Council for the Regulation of Engineering in Nigeria (COREN), a member of the Nigerian Society of Engineers (NSE); the Nigeria Institute of Electrical and Electronic Engineer (NIEEE) among others. He is a Fellow of TETFund Alliance for Innovative Research (TETFAIR), and has to his credit both local and international journal articles and referred conference proceedings.

For further inquiries or collaboration opportunities, Dr. Olanipekun can be contacted via email at [olanipekunaj@funaab.edu.ng](mailto:olanipekunaj@funaab.edu.ng) or [ayorindelanny@yahoo.com](mailto:ayorindelanny@yahoo.com)

### ii. Passport-sized Photograph



### iii. Personal Information

Name: OLANIPEKUN Ayorinde Joseph

Sex: Male

Marital Status: Married

Nationality: Nigerian

iv. Department: Electrical and Electronics Engineering

v. E-mail Address: [ayorindelanny@yahoo.com](mailto:ayorindelanny@yahoo.com), [olanipekunaj@funaab.edu.ng](mailto:olanipekunaj@funaab.edu.ng)

vi. Phone Number: +2348063685326, +2347056546036

vii. Rank: Lecturer

viii. Designation: Examination Officer

- ix. Researchgate Address <https://www.researchgate.net/profile/Ayorinde-Olanipekun>
- x. LinkedIn address <https://www.linkedin.com/in/ayorinde-olanipekun-423b45244/>
- xi. Google Scholar Profile OLANIPEKUN Ayorinde Joseph - Google Scholar
- xii. ORCID Number 0000-0002-9540-1944
- xiii. Qualification
  - (a) Academic Qualification (with dates)
    - i. Doctor of Philosophy (Ph.D.), Electronics and Control Systems Engineering 2023
    - ii. Master of Engineering (M.Eng.), Electrical and Electronics 2013
    - iii. Bachelor of Engineering (B.Eng.), Electrical/Electronics Engineering 2000
    - iv. Senior Secondary Certificate Examination 1993
  - (b) Professional Qualification (with dates)
    - i. Registered Engineer, Council for the Regulation of Engineering Nigeria (COREN) R.23243 2012
- xiv. Membership of professional Bodies
  - 1. Corporate Member, Nigerian Society of Engineers
  - 2. Nigeria Society of Electrical and Electronic Engineer (NIEEE)
- xv. Award received
  - 1. TETFund Alliance For Innovative Research (TETFAIR) an initiative of the Tertiary Education Trust Fund, in collaboration with Innov8Hub2022/2023
  - 2. Years 2018-2022 Institution Based Research (IBR) Intervention Grant 2022
  - 3. Academic Technologist of the Year 2011 in the College of Engineering (COLENG) by the Nigerian Universities Engineering Students' Association (NUESA), University of Agriculture, Abeokuta Chapter, 2011
- xvi. Research Conducted
  - (a) Completed (starting with latest).
    - 1. Analysis of a controlled self-excited induction generator
    - 2. Development of an automatic safe weight of lift monitoring device.
    - 3. Development of an RFID device for transportation system management
    - 4. Development of smart meter for demand side management of energy.
    - 5. Development of a solar powered vulcanizing machine
    - 6. Development of a voltage controlled multi-output battery charger
    - 7. Development of a solar powered lawn cutting machine
  - (b) In progress (list).
    - 1. Development of a non-invasive poultry welfare measuring device
- xvii. Conferences Attended
  - (a) International Conference and exhibition on Power and Telecommunication (ICEPT). Nigerian Society of Electrical and Electronic Engineers, 10-14 October, 2022.
  - (b) 3rd International Conference on Engineering Innovations as a Catalyst for Rapid Economic Growth tagged COLENG 2021, Federal University of Agriculture, Abeokuta, Nigeria, May 24 -26, 2021
  - (c) Second International Conference of College of Engineering, Federal University of Agriculture, Abeokuta, Nigeria, 14<sup>th</sup> – 17<sup>th</sup> May, 2018. Paper Read:

- (d) First International Conference of College of Engineering, Federal University of Agriculture, Abeokuta, Nigeria, 7<sup>th</sup> – 11<sup>th</sup> March, 2016. Paper Read:
- (e) International Conference on Engineering Research and Development, held at University of Benin. Edo State, Nigeria. 4<sup>th</sup> -6<sup>th</sup> September, 2012 (p34 Book of Abstracts). Paper Read: Identification of Intrinsically Functional Passive Electronic Components Using Visualization Tool.
- (f) Top Research Group Conference on Surmounting the Challenges against Millennium Development Goals, held at Village De Benin, University Du Lome, Togo, 7<sup>th</sup> -10<sup>th</sup> September, 2011 (p12. Book of Abstracts). Paper Read: Development of Human- Computer Interaction Device for Measurement of Passive Components.

xviii. Publications

1. Nuga O.O., **Olanipekun A.J.**, Nwaorgu O.G.F., Matthew S., Anyanwu B.U., Amusa K.A. (2023) Ethics: An obligation for Engineering and Scientific Societies. *International Journal of Basic Science and Technology (IJBST)*, 9(2):122-117. Published by Faculty of Science, Federal University, Otuoke, Bayelsa State.
2. Amusa K.A., **Olanipekun, A.J.**, Erinosh T.C., Salaam A.A., Razaq S.S. (2023) Development of a PC-based sign language translator, *International Journal of Informatics and Communication Technology (IJ-ICT)*. 12(1):177-185. Published by the Institute of Advanced Engineering and Science (IAES), Indonesia.
3. **Olanipekun A.J.**, Akinboro F.G., Nuga O.O., Matthew S., Egberinde O.G. (2022). Development of a Demand Side Smart Energy Control Meter. *International Journal of Basic Science and Technology (IJBST)*, 8(3):233-242. Published by Faculty of Science, Federal University, Otuoke, Bayelsa State.
4. **Olanipekun A.J.**, Amusa K.A., Nuga O.O., Matthew S., Aikulola B.O. (2022). Bus Pass System Development using Radio Frequency Identification (RFID). *International Journal of Basic Science and Technology (IJBST)*, 8(3):224-232. Published by Faculty of Science, Federal University, Otuoke, Bayelsa State.
5. Amusa K. A., Adewusi A. and **Olanipekun A. J.** (2018). Development of Infrared-Based Low Cost Bidirectional Counter. *FULafia Journal of Science & Technology*. 4: 10-16, Special Edition. Published by Faculty of Science and Technology, Federal University Lafia.
6. Olanipekun M.U., **Olanipekun A. J.**, Amusa K.A. and Opeodu A. J. (2018). Parameters Extraction of a Double-Diode Model of Photovoltaic Cell Using Newton-Raphson Method. *FULafia Journal of Science & Technology* 4: 112-118, Special Edition. Published by Faculty of Science and Technology, Federal University Lafia.
7. **Olanipekun A. J.**, Olanipekun M. U., Amusa K. A., and Olajide K. O. (2018). Modelling and Real Time Performance Study of Photovoltaic Array. *Umudike Journal of Engineering and Technology (UJET)*, 4(2): 12 – 18. Published by Michael Okpara University of Agriculture Umudike.
8. Adebisi O.I., Adejumobi I.A., **Olanipekun A.J.** and Bello O.H. (2018). Development of a fuel Level measuring System for Underground Liquid Tanks, *FULafia Journal of Science and Technology* (Special Edition), Lafia, 4: 94-101. Published by Faculty of Science and Technology, Federal University Lafia.
9. Nuga O.O., Amusa K.A. and **Olanipekun A.J.** (2017). GSM-Based Gas Leakage Detection and Alert System *ABUAD Journal of Engineering Research and Development* (AJERD), 1(1): 100-104. Published by Afe Babalola University Ado-Ekiti.
10. Nuga O.O., Amusa K. A., **Olanipekun A. J.** and Adewusi A. (2017). Dynamic Behaviour of a Modeled Transportation Networked Control System for T-Junction. *Journal of Natural Sciences, Engineering and Technology*. 16(1):70-82. Published by Federal University of Agriculture, Abeokuta.

11. Amusa K.A., Adewusi A., Nuga O.O., **Olanipekun A.J.** and Adewale O.A.(2015). Pyro-Electric Infrared Sensor-Based Intrusion Detection and Reporting System. *African Journal of Computer & ICTs*. 8(1):91-98. Published by IEEE Computer Society Nigeria Section.
12. Amusa K. A., Adewusi A., Nuga O. O., **Olanipekun A. J.** and Akinduko O. A. (2015). Two-Level Verification Access Control System. *African Journal of Computing & ICTs*. 8(1):175–180. Published by IEEE Computer Society, Nigeria Section.
13. <sup>f</sup>Matthew Simeon, Wara S. T., Adejumobi A. I., Ajisegiri E. S. A. and **Olanipekun A. J.** (2014) Power System’s Voltage Stability Improvement Using Static Var Compensator. *International Journal of Emerging Technology and Advanced Engineering*, 4(1):494-501.Published by IJETAE Publication House, India.
14. <sup>f</sup>**Olanipekun A.J.**, Adejumobi I.A., Fakolujo O. A and Akinwale A.T. (2012). Identification of Intrinsically Functional Passive Electronic Components Using Visualization Tool. *Journal of Science and Management*, Ghana. 1(1):97-104. Published by Top Research Group, Ghana.
15. Adejumobi I.A. and **Olanipekun A.J.** (2009). Software Application for Electrical Distribution System Reliability Studies: Box-Jenkins Methodology. SCIENCE FOCUS: *International Journal of Biological and Physical Sciences*, Published by Faculty of Biological and Physical Sciences, Ladoke Akintola University of Technology, Ogbomoso, 14 (3):377-390.
16. **Olanipekun A.J.**, Adejumobi I. A., Ismaila S.A., Akinwale A.T. (2022) .Characteristic Behaviour of Induction Machines Used for Electricity Generation. *Proceedings of the 18th International Conference and exhibition on Power and Telecommunication (ICEPT)*. Akan M., Olu.F.O., Nwabueze C., Adejumobi I.A., Mu’azu M.B., Dajab D.D., Haruna Y.S. and Amusa K.A. (Eds),10-14 October, 2022, pp 107-115. Published by Nigerian Society of Electrical and Electronic Engineers.
17. **Olanipekun A.J.**, Ismaila S.O., Akinrinola I.I., Akinwale O.B. (2021). Development of an Automatic Safe Weight of Lift Monitoring Device. *Proceedings of the 3rd International Conference on Engineering Innovations as a Catalyst for Rapid Economic Growth Tagged COLENG 2021*, Ismaila S.O., Dairo O.U., Oyelami A.T. and Omotainse P.O. (Eds). May 24 -26, 2021, pp 245-254. Published by Federal University of Agriculture, Abeokuta, Nigeria.
18. **Olanipekun A.J.**, Adejumobi I. A., Ismaila S.A., Akinwale A.T. (2021). Terminal Voltage and Frequency Control of Self-Excited Induction Generator using Fuzzy Logic Controller. *Proceedings of the 3rd International Conference on Engineering Innovations as a Catalyst for Rapid Economic Growth Tagged COLENG 2021*. Ismaila S.O., Dairo O.U., Oyelami A.T. and Omotainse P.O. (Eds).May 24 -26, 2021, pp 255-263. Published by Federal University of Agriculture, Abeokuta, Nigeria.
19. **Olanipekun A.J.**, Amusa K.A., Nuga O.O., Matthew S., Aikulola B.O. (2021). Development of a Radio Frequency Identification (RFID) Bus Pass System. *Proceedings of the 3rd International Conference on Engineering Innovations as a Catalyst for Rapid Economic Growth tagged COLENG 2021*, Ismaila S.O., Dairo O.U., Oyelami A.T. and Omotainse P.O. (Eds). May 24 -26, 2021, pp 276-285. Published by Federal University of Agriculture, Abeokuta, Nigeria.
20. Nuga O.O., **Olanipekun A.J.**, Amusa K.A. and Ajayi O.S.(2016).Development of Biometric Recognition System (Fingerprint and Face Recognition). *Proceedings of the 2016 International Conference on SET: A Driving Force for Sustainable Development Tagged COLENG 2016*,. J.K Adewumi, Adekunle A.A., Olayanju T.M.A., Ismaila S.O. and Dairo O.U. (Eds). March 7-11, 2016, pp 64-72. Published by Federal University of Agriculture, Abeokuta.