

## Short Profile

**Engr. OWOEYE Samuel Oluyemi** obtained his Bachelor of Engineering (B.Eng) at the University of Ilorin, Kwara state and Masters in Engineering from the Federal University of Agriculture, Abeokuta. He is currently working on his Doctor of Philosophy (Ph.D) at the Federal University of Agriculture, Abeokuta. Owoeye started his working career in the University as a Senior Computer Engineer and later moved to teaching line as an Assistant Lecturer. He won the Belgian Government Scholarship (VLIROUS Fellowship) for a Certificate course in Webmaster and Interactive Visualization at the University of Ghent, Belgium in 2005. He has published a several scientific journals and attended some conferences both locally and internationally. Engr Owoeye won the TETFund grant for Institution based Research in 2022. His area of interest includes Energy, Intelligent machines and Embedded System. He is a member of the American Society of Mechanical Engineers and a registered member of COREN



### BRIEF PROFILE OF

**Engr Samuel Oluyemi Owoeye**

***Lecturer I/ Coordinator, Mechatronics Engineering***

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xiii. Qualifications:

- **PhD (Mechanical Engineering)**, Federal University of Agriculture, Abeokuta, Nigeria.
- **M. Eng., Power and Mechanical Engineering**, Federal University of Agriculture, Abeokuta, Nigeria.
- **B.Eng (Hons.) Mechanical Engineering**, University of Ilorin, Ilorin, Nigeria.

xiv. Membership of Professional Bodies

- **Registered Engineer**, Council for the Regulation of Engineering in Nigeria (COREN)
- **Member**, American Society of Mechanical Engineers
- **Corporate Member**, The Nigerian Society of Engineers (NSE)

xv. Award Received:

- Tertiary Education Trust Fund (TETFUND), Nigeria – IBR Grant Awardee (2022)
- VLIR-OUS Belgian Government Fellowship Award

xvi. Research Conducted:

- a. Design and Development of Hand Gesture Controlled Trolley
- b. Development of Student Attendance Register Using Facial Recognition
- c. Design of an Electronic Throttle system
- d. Fire Extinguishing Robot.
- e. Smart Stick with IoT for Blind People.
- f. Design and Construction of a PLC-based Disinfecting Tunnel
- g. Design and Construction of an Automated Sorting System

xvii. Conferences Attended:

- Abiodun A, YUSSOUFF, **Samuel O.OWOEYE**, Abidemi O. YUSSOUFF, Temitayo S. OGEDENGBE, Rasheed O.SAHEED. (2018): Investigating the Performance of R134A Domestic Refrigerator Retrofitted with R290 (Propane) and R600A (Iso-Butane) Refrigerants in Three Different Sizes of Capillary Tube in a Refrigerant System *Proceedings of the International Conference of the College of Engineering, Federal University of Agriculture, Abeokuta. May 14 -17, 2018*, S.O Ismaila and O.U. Dairo (Eds), 624-635. Published by College of Engineering, Federal University of Agriculture, Abeokuta.
- Abdul- Afeez Ishola, Ismaila Salami, **Samuel Owoeye**. (2018): System Model Analysis of a Road Powered Generator Using Fluid Turbine Mechanism. *Proceedings of the International Conference of the College of Engineering, Federal University of Agriculture, Abeokuta. May 14 -17, 2018*, S.O Ismaila and O.U. Dairo (Eds), 400-409. Published by College of Engineering, Federal University of Agriculture, Abeokuta.
- **S.O. OWOEYE**, Folasade DURODOLA, Olaitan OLAONPEKUN, Benedict ANYANWU, Adedayo AKINADE, and Jethro ODEYEMI. Development of A Fire Extinguishing Robot with SMS Alert Feature. *Proceedings of the 3<sup>rd</sup> International Conference of the College of Engineering, Federal University of Agriculture, Abeokuta. May 24 -26, 2021*, S.O Ismaila and O.U. Dairo (Eds), 198-205. Published by College of Engineering, Federal University of Agriculture, Abeokuta.
- **S.O. Owoeye**, F.O Durodola, E. Kolade, S. Oladejo, O. Olaonipekun. Design and Development of an Automated Sorting Conveyor System. *Proceedings of 15<sup>th</sup> International Multi-Conference on ICT Applications, 23<sup>rd</sup>- 26<sup>th</sup> October, 2022*, G.A.

Aderonmu and B.O Akinyemi (Eds), 21-30. Published by Africa Centre for Excellence, Obafemi Awolowo University, Ile-Ife, Nigeria.

- S. Owoeye, F. Durodola, A. Akinade, A. Alkali and O. Olaonipekun, "Development of Alcohol Detection with Engine Locking and Short Messaging Service Tracking System," 2022 5th Information Technology for Education and Development (ITED), Abuja, Nigeria, 2022, pp. 1-6, doi: 10.1109/ITED56637.2022.10051302.

#### xviii. Publications

Ogunjobi, K.M.,A. C. Adetogun, A.O. Omole, **S. O. Owoeye** and J. B. Odebiyi (2013): Relationship between Mechanical Properties of *Vitex doniana*, a Lesser Known Species and Implications for Utilization and its Suitability for Paper Production. (*IOSR-JAVS*), 4 (5):50-56.

**Owoeye S.O.**, Waheed, A., Ishola A., Yussouf A. (2017): Modelling a Wind Map of Nigeria to Assess the Utilization of Wind as an Alternative Source of Energy, *LAUTECH Journal of Engineering and Technology*, 11(2): 24 – 33.

Yussouf A., Yussouf O., Raji W.A., **Owoeye S.O.** (2018): Performance Evaluation of Abesan Wastewater Treatment Plant, *LAUTECH Journal of Engineering and Technology*, 12(1): 58 – 65.

Aborisade D.O., Oronti I. O., Ishola A.A., Oyelami A. T., **Owoeye S.O.**, and Mausi J. T., (2018), "Development of a Home and Industrial Safety System". *Umudike Journal of Engineering and Technology (UJET)*, Vol. 4, No. 2, pp. 57-64.

Falana Ayodeji, Alegbeleye Tope, **Owoeye Samuel**. (2019): Magneto-Hydrodynamics (MHD) Bioconvection Nanofluid Slip Flow over a Stretching Sheet with Microorganism Concentration and Bioconvection Péclet Number Effects. *American Journal of Mechanical and Industrial Engineering*, 4 (6): 86-95. DOI: 10.11648/j.ajmie.20190406.11

Durodola, F.O.; Eludiora, S.I. and **Owoeye, S.O.** (2022): The Gregorian Calendar Dates in Yoruba: A Machine Translation Approach, *Journal of Engineering Research*. Unilag Faculty of Engineering Journal, Volume 27(4), pp 102-109.

**Owoeye, S.O.**; Ishola, A.O; Durodola, F.O, and Odeyemi, J.O. (2022): Design and Implementation of a Smart Stick with Video and Remote Tracking, *International Journal of Basic Science and Technology*. Federal University Otuoke, Faculty of Science and Technology Journal, volume 8(4), pp 243-250.

Benedict U. ANYANWU, Oluleke O. OLUWOLE, Ojo S.I. FAYOMI, Abel O. OLORUNNISOLA, Sidikat I. KUYE, **Samuel O. OWOEYE**, Olalekan O. OLAMIDE (2022). Corrosion Study of Electrodeposited Zinc-Magnesium Oxide-Biopolymer Coatings on A36 Mild Steel in 1M HCl Media. *International Journal of Basic Science and Technology*. Federal University Otuoke, Faculty of Science and Technology Journal,

**S.O. Owoeye**, F.O Durodola, S.A Akinade, T. Farinde, O. Sulaimon, (2022), Development of a Solar-Powered Smart Iot-Based Egg Incubator for Small-Scale Poultry Farmers, *Ife Journal of Information and Communication Technology*, 6(1), pp 46- 53.

Ishola A. A., Aninkan A.S., **Owoeye S. O.**, Abimbola P. O. and Oke P. O. Development Of Sms-Initiated Start, Stop And Changeover System For Choke Operated Gasoline Generators. *International Journal of Basic Science and Technology*. Federal University Otuoke, Faculty of Science and Technology Journal, volume 8(4), pp 187-197.

Anyanwu B.U., Olamide O.O., **Owoeye, S.O.**, O.O. Nuga O.O., Durodola F.O., (2023): Performance Evaluation of Selected Animal and Vegetable Oil Based Cutting Fluid in Mild Steel Turning Operation. *Journal of Engineering Research*. Unilag Faculty of Engineering Journal, Volume 27(4), pp 102-109.

**Owoeye, S.O.**, Adenuga, K.I., Mustapha, H. A., Akinlade, A.S., (2022): Enhancing the Human-Computer Interaction through the Application of Artificial Intelligence, Machine Learning, and Data Mining. In *Human-Computer Interaction and Beyond: Advances Towards Smart and Interconnected Environmental*. Nirmalya Thakur and Parameshachari B.D. (Eds.), 159-176, Published by Bentham Science. ISBN: 978-981-5036-40-4.

**S.O. Owoeye**, O.J. Odeyemi, F.O. Durodola, K.I. Adenuga, (2022): Deep data analysis for COVID-19 outbreak. *In Healthcare Monitoring and Data Analysis using IoT: Technologies and applications*. J Vishal and M.J. Chatterjee (Eds), 23pp, Published by The Institution of Engineering and Technology (IET), ISBN 978-1-83953-437-9.

**S.O. Owoeye**, A. S. Akinade, K.I. Adenuga, F.O. Durodola, (2022): Healthcare monitoring through IoT: security challenges and privacy issues. *In Healthcare Monitoring and Data Analysis using IoT: Technologies and applications*. J Vishal and M.J. Chatterjee (Eds), 13pp, Published by The Institution of Engineering and Technology (IET), ISBN 978-1-83953-437-9.

**S.O. Owoeye**, F.O. Durodola, O.J. Odeyemi, (2022): Object Detection and Tracking: Exploring a Deep Learning Approach and Other Techniques. In *Video Data Analytics for Smart City Applications: Methods and Trends*. Singh Rathore and Syed Ali (Eds.), 20pp, Published by Bentham Publisher, ISBN: 9789815123708.

**S.O. Owoeye**, K.I. Adenuga, O.J. Odeyemi, C.B. Emele, (2022): Deep Machine Learning for Sensing Analysis, and Interpretation in IoT Healthcare. *In Reinvention of Health Applications with IoT: Challenges and Solution*. D. Ambikapath and R. Shobana (Eds), 1-18. Published by CRC Press. ISBN 9781003166511.