

A.A. ISHOLA (MTE DEPARTMENT)

i. Brief Biography

Engr. Ishola assumed duty as Assistant Lecturer in the Department of Mechatronics Engineering of the University in 2017. His research areas are in Aerospace, Robotics, Artificial Intelligence, Control Systems and Automated Systems. He bagged his first degree with Honours in Mechanical Engineering from Olabisi Onabanjo University, Nigeria and his Masters' degree with Distinction in Aerospace Engineering from University of Hertfordshire, United Kingdom. He was awarded the Best Overall Master's Student and Best Aerospace Engineering Student in 2014. Engr. Ishola is currently pursuing his PhD. degree in Aerospace Engineering with focus on Aerospace-Robotics and Machine Learning at Cranfield University, United Kingdom. He is skilled in Aircraft Designs, Unmanned Aerial Vehicles (UAVs), Computational Fluid Dynamics (CFD), Finite Element Analysis (FEA) as well as Modelling, Simulation and Control. As an aspiring scholar, he has published a few scientific journals coupled with series of relevant conference proceedings both locally and internationally. He is currently researching and developing Automated Aircraft Inspection Using Robotics, Intelligent Seed Planting Robot, Patient Assistance and Drug Dispensing (PADD) Robot and Autonomous Public Toilets. Prior to his appointment at FUNAAB, he had served at various capacities in academia and industry. He had worked as Project Engineer with Linkserve Consultants, Nigeria; Mechanical Engineer with Ministry of Works and Infrastructure, Ogun State; Lecturer at Moshood Abiola Polytechnic, Nigeria and Technical Consultant at Minerva Dynamics, United Kingdom. He is interested in innovative researches, product development, grants sourcing, youth development, global collaborative networks, community engagements and volunteer services. At FUNAAB, he has supervised various undergraduate projects which some have been exhibited and commended at national engineering conferences. Engr. Ishola is a certified Project Manager, a Cisco Certified Network Associate (CCNA), Member of the Institution of Engineering and Technology (IET), UK., Member of the Nigerian Society of Engineers (NSE) and registered with the Council for the Regulation of Engineering in Nigeria (COREN).

ii. Passport-sized Photograph



iii. Personal Information: Ademayowa Afiz Ishola

iv. Department: Mechatronics Engineering

v. E-mail Address: isholaaa@funaab.edu.ng

vi. Phone Number: 07031333144

vii. Rank: CONUASS4 STEP I

viii. Designation: Lecturer I

ix. Researchgate Address: <https://www.researchgate.net/profile/Ademayowa-Ishola>

x. LinkedIn Address: <https://www.linkedin.com/in/isholaademayowa/>

xi. Google Scholar Profile: <https://scholar.google.com/citations?user=nZgTTUEAAAAJ&hl=en>

xii. ORCID Number: <https://orcid.org/my-orcid?orcid=0000-0002-5435-5726>

xiii. Qualifications:

- **PhD. in Aerospace (Flight Dynamics – Robotics)**, Cranfield University, United Kingdom.
- **MSc. Aerospace Engineering**, University of Hertfordshire, Hatfield, United Kingdom.
- **BSc. (Hons.) Mechanical Engineering**, Olabisi Onabanjo University, Ogun State, Nigeria.

xiv. Membership of Professional Bodies

- **PhD. in Aerospace (Flight Dynamics – Robotics)**, Cranfield University, United Kingdom.
- **MSc. Aerospace Engineering**, University of Hertfordshire, Hatfield, United Kingdom.
- **BSc. (Hons.) Mechanical Engineering**, Olabisi Onabanjo University, Ogun State, Nigeria.
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xv. Award Received:

- Tertiary Education Trust Fund (TETFUND), Nigeria – Ph.D. Scholarship Award
- Tertiary Education Trust Fund (TETFUND), Nigeria – Research Grant Scholar
- Distinction grade in MSc. Aerospace Engineering. (86.74%)
- Best Overall MSc. Student (2013/2014), University of Hertfordshire, U.K.

xvi. Research Conducted:

- Development of a robotics and mechatronics Device for dynamic Wind Tunnel testing

xvii. Conferences Attended:

- J. F. Whidborne, E. Jarzebowska, V. Agarwal and A. A. Ishola, "Manipulator-aircraft dynamical system dedicated for wind tunnel testing," in *DSTA 16th International Conference*, Online, 2021.
- **Ishola A.A.**, Ismaila S.O., Owoeye S.O. (2018). System Model Analysis of a Road Power Generator Using Fluid Turbine Mechanism. **Proceedings of 2018 International Conference on STEM**, 466-475, Published by College of Engineering, Federal University of Agriculture Abeokuta. Dairo, O.U., Ismaila S.O. (Editors).
- **Ishola A.A.**, Oyelami A.T., Waheed M.A. (2018). System Model Analysis of a Road Power Generator Using Fluid Turbine Mechanism. **Proceedings of 2018 International Conference on STEM**, 476-482, Published by College of Engineering, Federal University of Agriculture Abeokuta. Dairo, O.U., Ismaila S.O. (Editors).

xviii. Publications

- A. Ishola, S. Owoeye, A. Aninkan and P. O. P. Abimbola, "Development of SMS-Initiated Start-

Stop and Changeover System for Choke Operated Gasoline Generators," *International Journal of Basic Science and Technology*, p. 187 – 197, 2022.

- A. A. Ishola, A. T. Oyelami, O. A. Orelaja and O. A. Olaniran, "Implementation of Fuzzy-PID Controller for Weft Yarn Tension Control in Textile Industries," *International Journal of Basic Science and Technology*, pp. 208-216, 2022.
- O. Oluseyi. A, X. Wang, J. Li, I. Sh.Dauda, I. Ademayowa A. and O. S.A., "Design of a Vibration Damping Robot and Force Evaluation In Intraoperative Robotic Assisted Femoral Shaft Repair Using a Modified Soft Damper," *The International Journal of Medical Robotics and Computer Assisted Surgery*, p. DOI: 10.1002/rcs.2349, 2021.
- O. A. Orelaja, W. Xingsong, O. Odutayo, A. A. Ishola, M. B. Adeleke and O. M. Olabode, "Peak-Performance with a Minimal-Range Differential Pressure Sensors Formed a Thin-Film under Bulk Machining Technology and it Future Research.," *International Journal of Advances in Engineering and Management (IJAEM)*, pp. 111-116, 2020.
- D. O. Aborishade, A. A. Ishola, I. B. Oronti and R. Mustapha, "Development of an SMS Alert Fuel Measuring System for a Horizontal Cylindrical Reservoir," *Umudike Journal of Engineering and Technology (UJET)*, vol. 4, no. 2, pp. 72 - 76, 2018.
- O. A. Orelaja, W. Xingsong, S. Donghua and I. Dauda, "Comparative Analysis of Cutting Forces, Torques, and Vibration in Drilling of Bovine, Porcine, and Artificial Femur Bone with Considerations for Robot Effector Stiffness," *Hindawi Journal of Healthcare Engineering*, vol. 2020, no. Special Issue, 2020.
- O. A. Orelaja, B. A. Michael, A. A. Ishola, O. Odutayo, P. K. Olufemi and O. I. Abiodun, "Study on Forging and Forming, Intelligent Production Robot System for an Automotive Component," *International Journal of Science and Research (IJSR)*, vol. 9, no. 10, pp. 38 - 43, 2020.
- A. Ishola, A. Alsheri and A. Musa, "Optimised Intake Stroke Analysis for Flat and Dome Head Pistons," *Nigerian Journal of Technology (NIJOTECH)*, vol. 36, no. 2, pp. 428 - 436, 2017.
- A. Musa, A. Ishola and H. Adeyemi, "Investigation of Peak Expiratory Flow Rate of Female Bakers In Abeokuta, Ogun State, Nigeria," *Journal of Scientific and Engineering Research*, vol. 3, no. 3, pp. 67 - 72, 2016.
- A. A. Ishola, A.-H. Obasa and G. Adekunle, "Electromagnetically-Actuated Double-Acting Reciprocating Pump for Industrial Applications," *International Journal of scientific & Engineering Research*, vol. 6, no. 6, pp. 278 - 285, 2015.
- S. Owoeye, A. Waheed, A. Ishola and A. Yossouf, "Modelling a Wind Map of Nigeria to Assess the Utilization of Wind as an Alternative Source of Energy," *LAUTECH Journal of Engineering and Technology*, vol. 11, no. 2, pp. 24 - 33, 2017.
- A. A. Ishola, C. Rachel and A. Talib, "Mathematical Modeling and Simulation of a Twin-Engine Aircraft Fuel System Using MATLAB-Simulink," *International Journal of Control Science and Engineering*, vol. 8, no. 1, pp. 1 - 12, 2018.