

William Olurotimi Falana

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EDUCATION

Near East University PhD Electrical & Electronic Engineering	Nicosia, Cyprus 2023 – Present
Near East University MSC Electrical & Electronic Engineering	Nicosia, Cyprus 2019 – 2022
Near East University BSC Electrical & Electronic Engineering	Nicosia, Cyprus 2014 – 2019

RESEARCH AND TEACHING INTERESTS

Research Interests

- Artificial Intelligence and Machine Learning: Deep learning architectures, transfer learning, explainable AI, and interpretable models.
- Medical Imaging and Healthcare AI: Development of AI-based diagnostic systems for cancer detection (lung, ovarian, prostate) and kidney disease classification using radiological and histopathological images.
- Financial Technology and Fraud Detection: Application of machine learning and explainable AI techniques for detecting and preventing financial fraud.
- Renewable Energy Forecasting: AI-driven solar power prediction and optimization, integrating weather and power generation data.
- Predictive Analytics and Data Science: Multi-task learning, anomaly detection, and real-world data modeling for decision-making.

Teaching Interests

- Artificial Intelligence and Deep Learning
- Data Science, Predictive Analytics, and Statistical Learning
- Medical Image Analysis and Bioinformatics

- Financial Data Mining and Fraud Analytics
- Renewable Energy Systems and Smart Grids
- Computer Science Foundations (Programming in Python/MATLAB, Algorithms, and Applied AI Tools)

PROFESSIONAL EXPERIENCES

PhD Researcher (Artificial Intelligence & Deep Learning)

Near East University, Nicosia, Cyprus

2023 – Present

- Conducting research in deep learning and explainable AI for medical image classification (Covid-19, lung cancer, and multimodal imaging).
- Developed predictive models for solar energy forecasting and financial fraud detection using AI.
- Published peer-reviewed IEEE conference papers on deep learning for medical imaging.
- Collaborating with faculty and peers on interdisciplinary AI applications.

Technical Engineer

Sulem Electric Systems, Nicosia, Cyprus

2023 – Present

- Responsible for the installation, maintenance, and repair of generators ranging from 1 kVA to 1 MVA, serving residential, commercial, and industrial clients.
- Performed diagnostics, fault detection, and troubleshooting to restore optimal generator performance and minimize downtime.
- Conducted preventive and corrective maintenance, including engine servicing, electrical testing, and load capacity checks.
- Supervised on-site installations, ensuring compliance with safety standards, electrical codes, and client specifications.
- Collaborated with clients to recommend energy solutions tailored to load demands and operational requirements.

- Prepared technical reports and maintenance records to support operational planning and customer service.

Technical Director

Forever Computers, Nicosia, Cyprus

2016 – 2018

- Directed and supervised hardware and software repair operations, ensuring high-quality technical solutions for individual and corporate clients.
- Managed a team of technicians, providing training, task delegation, and performance supervision to improve service delivery and customer satisfaction.
- Diagnosed and resolved complex system failures, including motherboard faults, operating system crashes, and network connectivity issues.
- Provided consulting and technical support for businesses, including preventive maintenance, system upgrades, and IT infrastructure planning.
- Oversaw inventory management of spare parts, tools, and equipment, ensuring cost-effective resource utilization.
- Improved workflow efficiency by standardizing repair processes and implementing troubleshooting protocols.

SELECTED GRANTS AND HONORS

Dean's Honors List	2018 – 2019 Fall
Dean's Higher Honors List	2018 – 2019 Spring

WORKS IN PROGRESS

“Evaluation of Solar Resource Availability and Smart Load Scheduling for Residential Buildings,” (Under review)

PUBLICATIONS

W. O. Falana, A. Serener and S. Serte, "Deep Learning for Comparative Study of Ovarian Cancer Detection on Histopathological Images," 2023 7th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkiye, 2023, pp. 1-6, doi: 10.1109/ISMSIT58785.2023.10304913.

F. William, A. Serener and S. Serte, "Deep learning classification of Covid-19, pneumonia, and lung cancer on chest radiographs," 2021 5th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, 2021, pp. 125-129, doi: 10.1109/ISMSIT52890.2021.9604629.

W. O. Falana, A. Serener and S. Serte, "Deep Learning in Clinically Significant Prostate Cancer Classification via Biparametric MRI Sequences," 2023 3rd International Conference on Emerging Smart Technologies and Applications (eSmarTA), Taiz, Yemen, 2023, pp. 1-7, doi: 10.1109/eSmarTA59349.2023.10293371.

Falana, W. O., Tackie, S. N., & Bilgehan, B. (2024). Optimizing power electronics with ai: A look at current successes, challenges, and future directions. *Int. J. Tech. Phys. Probl. Eng*, 16, 302-311.

F. William, A. Serener and S. Serte, "Effect of multimodal imaging on Covid-19 and lung cancer classification via deep learning," 2021 5th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, 2021, pp. 120-124, doi: 10.1109/ISMSIT52890.2021.9604683.

W. O. Falana, A. Serener and S. Serte, "Clinically Significant Prostate Cancer Classification Using Anatomical T2W MRI Sequences and Deep Learning," 2023 7th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Türkiye, 2023, pp. 1-6, doi: 10.1109/ISMSIT58785.2023.10304897.

F. William, A. Serener and S. Serte, "Patient gender identity information in Covid-19 severity detection on 3D chest CT scans via deep learning," 2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Ankara, Turkey, 2022, pp. 1-5, doi: 10.1109/HORA55278.2022.9799940.

W. O. Falana, A. Serener, F. Ayodeji and S. N. Tackie, "Deep-Learning-Based Image Preprocessing and Classification for Kidney Disease Detection in CT Scans," 2025 7th International Congress on Human-Computer Interaction, Optimization and Robotic Applications (ICHORA), Ankara, Türkiye, 2025, pp. 1-6, doi: 10.1109/ICHORA65333.2025.11017240.

W. O. Falana and K. Dimililer, "Impact of Image Filtering Techniques on Deep Learning-Based Kidney Disease Classification Using CT scans," 2025 7th International Congress on Human-Computer Interaction, Optimization and Robotic Applications (ICHORA), Ankara, Türkiye, 2025, pp. 1-7, doi: 10.1109/ICHORA65333.2025.11017118.

Falana, W.O., Mubarak, A.S., Ameen, Z.S., Serener, A. (2025). Regression-Based Analysis of Surface Longwave Downward Irradiance Impact on Soil Moisture and Temperature in the Mediterranean Region. In: Gökçekuş, H., Kassem, Y. (eds) *Climate Change and Water Resources in Mediterranean Countries*. WPMC 2023. Environmental Earth Sciences. Springer, Cham. https://doi.org/10.1007/978-3-031-65960-7_25

ADDITIONAL PUBLICATIONS

- EFFECTS OF MULTIMODAL IMAGING ON SARS-COV-2 AND LUNG CARCINOMA CLASSIFICATION USING DEEP LEARNING , *Master Thesis*, 2022

CERTIFICATIONS

Google Digital Marketing & E-Commerce Certificate – Google

Skills: SEO/SEM marketing, analytics, online advertising, content optimization, and digital strategy. Jan 2023

TECHNICAL SKILLS

- Data Science/ Machine Learning: Python (NumPy, Pandas, Scikit-Learn, Keras, TensorFlow, Matplotlib, Seaborn, PySpark) and R.
- Web Development: HTML, CSS, and JavaScript
- Others: Video Editing.

SCHOOL PROJECTS

- Face and gender recognition system , Spring 2019

REFERENCES

Assist. Prof. DR ALI SERENER
Department of Electrical & Electronics Engineering
Near East University
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ASSOC Prof. Dr Falana Ayodeji
Department of Mechanical Engineering
University of Ibadan
Email: falanaayode@gmail.com