OLUWAGBEMILEKE "LEKE" OYEFESO
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EDUCATION

University of Michigan Ann-Arbor, USA
Ph.D. in Electrical and Computer Engineering (Specialization: Power & Energy) *April 2024*
M.Sc. in Electrical and Computer Engineering *Dec. 2021*

University of Lagos Lagos, Nigeria
Bachelor of Science in Electrical/Electronics Engineering (CGPA: 4.6/5.0) *January 2018*

WORK EXPERIENCE

University of Michigan
Graduate Research Assistant *August 2019 – Present*

- *Collaborating with 4 other institutions to improve grid reliability with a pilot of 1000+ residential houses, with potential to scale for different regional grids.*
- *Demonstrating the energy resource potential of aggregating thousands of thermostatically controlled loads, via simulations, experiments and field demonstrations*

Ariosh Limited
Instrumentation and Control Engineer *January 2018 – July 2019*

- *Worked in a team of 4 to develop steady-state simulation of Plants and performed Equipment Fabrication Assurance to prevent on-site installation misalignments, improving process efficiency by more than 75%*
- *Generated numerous Instrumentation & Control project deliverables with 100% client satisfaction*
- *Served in project management and client liaison roles on projects*

RESEARCH AND PROJECTS

Overcoming the Technical Challenges with Load Coordination at Scale *August 2019 – Present*

- *Demonstrating coordination and control of Distributed Energy Resources at scale for grid services*

Chevron Sonam NWP IE&D Project *January 2019 – July 2019*

- *Migrated Sonam Non-Associated Gas Well Project data to the intelligent Aveva IE&D platform*

Shell Gbaran Phase 3B - Uzu with CPF upgrade project *January 2019 – July 2019*

- *Involved the infill drilling of 4 new NAG wells, 1 existing NAG well & 1 oil well, as well as installation of a 200MMscfd TEG dehydration train and the ancillary units, including brownfield tie-ins*

Evwreni Gaslift Compressor Installation Project *August 2018–December 2018*

- *Increased the production of low-pressure oil wells using gas-lift techniques*

OML 30-Produced Water Treatment Project - Phase I *June 2018 – December 2018*

- *Designed produced water treatment and injection facilities installation with 75,000 BPD capacity*

Local Production and Utilization of Solar Panels *March 2017 – October 2017*

- *Designed and built a solar powered charging booth utilizing locally produced raw materials*

PUBLICATIONS

"Control of Aggregate Air-Conditioning Load using Packetized Energy Concepts" by Oyefeso, Ledva, Mathieu, Hiskens, Almassalkhi, in 2022 IEEE Conference on Control Technology and Applications (CCTA), 2022, pp. 447-454.

COMPUTING SKILLS

Python, Microsoft Office, MATLAB, AutoCAD, Aveva Suite, PowerWorld Simulator, GridLabD

LEADERSHIP & VOLUNTEER ACTIVITY

Eta Kappa Nu, Beta Epsilon Chapter – *Member*

- Coordinated a team of 5 in organizing the *codebusters section* of the University of Michigan Science Olympiad (UMSO - 2020), involving 60+ schools
- Participated in eco-restoration activities with the Matthaei Botanical garden & Nichols Arboretum

IEEE – Student Member (Power & Energy Society and Control Systems Society)

- IEEE PES Chapters Student Activities Committee

African Graduate Students Association – University of Michigan

- Provide graduate school & career mentorship to Africans-in-diaspora; help new graduate students settle in
- Organized numerous social & networking events for the African graduate students

Guest Speaker – International School, University of Lagos

- *Delivered the Guest Lecture at the Annual 31st & 32nd Awards Ceremony*