

# DARAMOLA Oluwatobi John

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## PROFESSIONAL SUMMARY

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Dynamic and result-oriented researcher with over eight years industrial experience in the power sector. Proficient in data analysis, machine learning algorithms, including neural networks and digital signal processing. A fast learner and team player, passionate about contributing innovative research to advance industry standards.

Interests: Smart Power Electronics & Systems | Smart Grid | Internet of Things | Cyber-Physical Systems | Machine Learning | Digital Electronics | Web Development | Digital Twin | Wireless Communication Systems

## EDUCATION

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### MEng | Electronics and Telecommunication

September 2022

University Of Benin, Benin City, Edo, Nigeria

GPA: 4.6/5.0

### BSc | Electronic and Electrical Engineering

March 2013

Obafemi Awolowo University, Ile-Ife, Osun, Nigeria

GPA: 4.13/5.0

## SKILLS AND COMPETENCIES

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**Programming:** Python, JavaScript, Verilog HDL. | **Software:** Proteus, LTSpice, AutoCAD, Anaconda, MATLAB, LabVIEW, Microsoft Office Suites. | **Machine Learning:** Scikit-learn, TensorFlow, PyTorch, KERAS, PySpark, Natural Language Toolkit (NLTK), xgboost. | **Data Analysis:** MS Access & Excel, PowerBI, SQL. | **Optimization:** Linear programming, dynamic programming, stochastic programming.

## RESEARCH AND LAB EXPERIENCE

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### Research Assistant

August

Independent Study | Prof. K.O Ogbeide, University of Benin

2021-

- Used MATLAB in implementing the link (downlink) level simulation of the 5G NR Physical Layer whilst adhering to the 5G NR numerologies and frame structure as specified in 3GPP standards.
- Employed the Single Value Decomposition (SVD) technique on PDSCH to maximize the reception of specific antenna and reducing interference with others.
- Carried out time-frequency analysis between the OFDM symbols and Subcarriers to analyse and view the resource block allocation to the PDSCH, PSS, SSS, PBCH, PBCH DM-RS, PDSCH DM-RS.
- Evaluated performance metrics such as bit-error-rate (BER), throughput, spectral efficiency, peak-to-average power ratio (PAPR) and one-way latency for Quadrature Phase Shift Keying (QPSK), 16QAM (16-Quadrature Amplitude Modulation), 64QAM and 256QAM.

September

2022

Edo, NG

## Student Lab Member

### Instrumentation and Control Lab | Dr O. Akinwale, Obafemi Awolowo University

- Collaborated with another student to derive the mathematical model of a magnetic suspension system which was modelled and simulated on MATLAB.
- Designed the PID Controller on LabVIEW enhanced with a DAQ to communicate with plant setup.
- Carried out stability and controllability test on the resulting closed loop system model using MATLAB built-in functions.

September  
2012 -  
March  
2013  
Osun, NG

## Student Lab Member

### Power Systems Lab | Dr F. Ariyo, Obafemi Awolowo University

- Teamed up with other undergraduate students to design a 2KVA automatic voltage regulator using MOSFETs for precise voltage control.
- Developed a prototype, tested for performance under real-world conditions, achieving 97% efficiency

April 2010  
- June 2010  
Osun, NG

## PUBLICATION

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K.O Ogbeide, **O. J Daramola**. Efficiency Comparison for different Modulation Scheme for 5G Wireless Network Model. International Journal of Computer Science and Engineering. November 2021, 9(11), <https://doi.org/10.26438/ijcse/v9i11.1018>

## TEACHING EXPERIENCE

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### National Youth Service Corps | Academy Tutor

- Prepared curriculum based academic materials and organized classes/tutorial students at lower levels.
- Evaluated students' performance through continuous assessment and grading using standard marking scheme.
- Achieved a success rate of over 91% by coaching and mentoring aspiring undergraduates in the basic sciences.

March  
2014 –  
January  
2015  
Delta, NG

## INDUSTRIAL EXPERIENCE

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### BEDC Electricity Plc.

2015 – Till Date

### Maximum Demand Management Officer | *Oversight function of the technical and commercial viability of electricity users with 50KVA loading capacity and above.*

- Improved the billing efficiency on 11KV industrial feeder from 73% to 92% through strategic metering/infrastructure loss reduction and network clean up.
- Increased commercial viability by 60% within 4 months through improved customer and key client's relation

October  
2022 – till  
date  
Edo, NG

### Service Manager | *Mid-managerial role providing supervision to technical, commercial and ad-hoc staff within 14 communities with over 142 11/0.4KV distribution transformers.*

- Led a team to analyse energy losses and implemented resource allocation strategies, achieving a significant reduction in system inefficiencies by 28%.

April  
2020 –  
September  
2022  
Edo, NG

- Developed business model for demand forecasting on 11KV feeder, improving the efficiency and stability.

**Metering Engineer** | *Responsible for the management, maintenance, routine inspection of low and medium voltage electricity meters alongside related data and supervision of mass metering projects.*

October  
2015 –  
March  
2020  
Delta, NG

- Pioneered and handled the mass metering project (federal government initiative) for customers on Township 33KV feeder, Asaba, Delta state.
- Extracted meaningful insights from prepayment meter vending data for Delta South using office suite packages for analysis, reporting and visualization.
- Refined business operations and improved performance rating for key business indicators as a metering team member of the *Power Africa Transactions and Reforms Program – USAID*.

## **National Engineering and Technical Company (NETCO)**

**2011 – 2012**

**Instrumentation and Control Designer Intern** | *Design, develop, and run control devices and systems in oil and gas facilities.*

September  
2011 –  
February  
2012  
Lagos,  
NG

- Prepared Instrumentation and control deliverables for Chevron Produced Waste Disposal Project.
- Incorporated updates to Mobil Pigging facilities upgrade (post construction) P&ID drawings based on changes to design using AutoCAD.

## **MOOCs & ONLINE COURSES**

**Machine Learning** – *AlgoExpert* | **Data Science with Python** – *DataCamp* | **Internet of Things** – *GlobalTech* | **Power Electronics Specialization** – *University of Colorado Boulder (Cousera)* | **Operations Research 1, 2 & 3** – *National Taiwan University (Cousera)* | **Cybersecurity Analyst** – *IBM (Cousera)* | **Cyber-Physical Systems** – *University of California, Santa Cruz (Cousera)*

## **PROFESSIONAL MEMBERSHIP**

Council for the Regulation of Engineering in Nigeria (COREN) | The Nigerian Society of Engineers (NSE) | Institute of Electrical and Electronics Engineer (IEEE).