

CHARLES OLANREWAJU

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PROFESSIONAL PROFILE

A motivated civil engineering professional with a strong foundation in Artificial Intelligence (AI), seeking to integrate cutting-edge AI technologies into civil engineering projects. I am particularly passionate about using AI to optimize structural designs, improve predictive maintenance, and drive innovation in sustainable construction. With hands-on experience in structural and construction design, I aim to enhance efficiency, safety, and decision-making processes in engineering projects. Excited to contribute to a forward-thinking organization that values technology-driven solutions and fosters opportunities for professional growth.

SKILLS AND COMPETENCES

- Proficient in Python coding and AI/ML algorithms for civil engineering applications
- Data visualization expertise using Power BI and Matplotlib
- Structural and architectural drawing interpretation
- Proficient in civil engineering tools: AutoCAD, Prota Structure, Orion, Staad Pro, Revit
- Experience in predictive modeling for water potability and other engineering challenges
- Ability to work autonomously and as part of a collaborative team
- Excellent analytical, numerical, and problem-solving skills
- Ability to learn and implement new technologies quickly

WORK HISTORY

- **Student Projects**, Teesside University, Middlesbrough
Sept 2023 – Jan 2024

Key Achievements

- Developed a machine learning model to predict water potability, demonstrating AI's potential in public health and infrastructure planning
- Conducted in-depth data analysis and visualization on the Gurgaon Real Estate Market dataset using Power BI, showcasing how AI can support decision-making in construction and urban development

- **Design Engineer**, Femak Associates Limited (Overseas)
Jan 2019 – Sept 2023

Key Achievements

- Civil and Structural Engineering Design using BS codes, including structural designs for various foundation types, retaining walls, columns, beams, and slabs
- Supervised site work, ensuring compliance with structural details and quality control, and conducted inspections of reinforcement bar installations
- Prepared Bar Bending Schedules

- **Graduate Engineer**, Olaren Construction (Overseas)
Jan 2018 – Dec. 2018

Key Achievements

- Assisted in laying water and sanitary pipes
- Installed water tanks, taps, and fittings
- Repaired or replaced water and sanitary pipes, taps, and fittings
- Involved in liquid and solid waste treatment processes

• Graduate Trainee, Wolex Plumbing Services (Overseas)

July 2016 – Dec. 2016

Key Achievements

- Installed water tanks and supervised the laying of water pipes
- Supervised house painting and tile installation projects

• Industrial Trainee, Westmidland Construction Company (W.C.C) (Overseas)

March 2015 – July 2015

Key Achievements

- Participated in the construction of drainage systems and culverts
- Assisted in preparing subgrade, sub-base, and base courses for flexible pavement
- Helped with the setting out of new roads and the interpretation of survey data

EDUCATION

• Master's Degree, Applied Artificial Intelligence (Expected) 2025

Teesside University, Middlesbrough, United Kingdom.

• Bachelor's Degree, Civil Engineering 2015

Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria.

CERTIFICATIONS

• Data Visualization with Matplotlib Boot camp (Dphi) 2022

• COREN Certified Engineer – Council for the Regulation of Engineering in Nigeria 2020

• Health, Safety and Environment (HSE) 1 and 2 Certification 2014