

AKINBOBOLA O. JEGEDE

TRANSPORTATION/HIGHWAY ENGINEER



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SKILLS

- **Programming & Data Analysis:** Python, MATLAB
- **Machine Learning:** Predictive Modeling, Classification, Regression, Deep Learning
- **Transporting Tools:** MicroStation, GIS
- **BioSignal Analysis:** Multimodal BioSignal (EEG, EOG, ECG, GSR, Eye Tracking)
- **Traffic Safety & Simulation:** Driver Behavior Modeling, Traffic Flow Optimization
- **Connected & CAVs:** Multimodal Data Integration, Driver State Monitoring.

AWARDS

- Academic Award on Dean's Honor's list, Faculty of Management Sciences (2021)
- Best Industrial Training Intern (Nigeria Airspace Agency – Ilorin International airport) (2021)



PROFILE

A Dedicated Transportation & Highway Engineering researcher specializing in driver psychophysiology, traffic safety analysis, and intelligent transportation system (ITS). Skilled in crash data analysis, predictive modeling, and traffic flow optimization. Experienced in multimodal BioSignal analysis to enhance road safety and advance human-machine interaction.

Passionate about applying multimodal data driven solutions and to enhance the safety and efficiency of connected and autonomous vehicles (CAVs)



EMPLOYMENT HISTORY

Graduate Research Assistant (Part-time) South Carolina State University, Orangeburg, SC
August 2024 – Present

- Transportation & Highway Engineering researcher specializing in driver psychophysiology, traffic safety analysis, and intelligent transportation systems (ITS).
- Conduct multimodal BioSignal analysis to assess driver attention, fatigue, and cognitive states in real-time.
- Apply machine learning and deep learning techniques to model and predict unsafe driving behavior and enhance human-machine interaction.
- Analyze physiological signals using advanced signal processing and classification techniques to extract meaningful patterns related to driver state and performance.
- Support research in psychophysiology strategies for Connected and Autonomous Vehicles (CAVs) to ensure safety, efficiency, and system resilience.

Assistant Transport Manager Geely Nigeria, Lagos, Nigeria June 2022 - December 2024

- Oversaw and optimized transportation and logistics operations within the automotive supply chain.
- Developed strategic plans for efficient movement of vehicles and components, ensuring cost-effectiveness and regulatory compliance.
- Collaborated with cross-functional teams and stakeholders to streamline communication and ensure timely deliveries.
- Supported fleet operations with real-time tracking and logistics optimization tools.



EDUCATION

Master's degree, Transportation and Highway Engineering, South Carolina State University, Orangeburg, South Carolina
January 2025 – Present

Bachelor's degree, Transportation Management, Ladoke Akintola University of Technology, Ogbomosho, Oyo State, Nigeria
Awarded April. 2022