AJIBADE PRAISE

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PROFILE

First-Class Mechatronics Engineering graduate (CGPA 4.88/5.00) with industry experience in oil and gas operations, asset management and regulatory compliance, including building tools that automate operational and regulatory workflows. Skilled in control systems, embedded systems and programming, with a growing foundation in artificial intelligence. Motivated to develop automation and safety technologies that make energy operations in Africa safer, more efficient and more sustainable, and to evaluate them against their environmental, economic and policy realities.

EDUCATION

Bells University of Technology November 2025
B.Eng. (Hons) Mechatronics Engineering – First Class *CGPA: 4.88/5.00*

- Final-year project: hybrid voice- and joystick-controlled wheelchair retrofit for paediatric mobility, published in NiJASIT (see Publications)
- Ranked joint third in the Department of Mechatronics Engineering

Miva Open University January 2026 – December 2026 (expected)
Master's in Information Technology (Artificial Intelligence), part-time *CGPA: 4.50/5.00*

- Thesis project (in progress): Cul-Text, a culturally grounded AI assistant (see Projects)

RESEARCH & TECHNICAL PROJECTS

Retrofitting a Manual Wheelchair with Hybrid Voice and Joystick Control for Paediatric Mobility
B.Eng. Final-Year Project, Bells University of Technology *January 2025 – July 2025*

- Designed and built a retrofit that converts a manual wheelchair to voice and joystick control, aiming to make powered mobility more accessible and affordable for children with motor impairments.
- Integrated an Arduino Uno, NodeMCU ESP8266, two BTS7960 motor drivers and DC gear motors with an Android app (MIT App Inventor) that sends recognised voice commands over local Wi-Fi.
- Achieved 90% voice-command recognition (63/70 trials) in quiet conditions, with 1.0–1.5 s voice latency and 160–190 ms joystick response.
- Resolved mechanical integration challenges, including wheel-to-shaft slippage and chain alignment, using locally sourced components (bill of materials: ₦597,900).

Cul-Text: Culturally Grounded AI Assistant 2026 – Present
M.IT Thesis Project, Miva Open University

- Developing a web-based AI assistant that answers using verified Nigerian cultural knowledge, so its replies fit local context rather than generic assumptions.
- Deployed end-to-end on free-tier infrastructure (Render, Vercel, Supabase), with a backup model for rate-limit failover and knowledge updates restricted to a single verified account.
- Running a human evaluation with anonymous native-speaker reviewers to assess cultural accuracy.

PUBLICATIONS

Akinwande, D. O., **Ajibade, P. T.**, Abiola, J. O., Iriaye, F. E., & Ajewole, O. K. (2026). Retrofitting a manual wheelchair with hybrid voice and joystick control for paediatric mobility. *Nigerian Journal of Applied Science and Innovative Technology (NiJASIT)*, 2(3), 403–417.

PROFESSIONAL EXPERIENCE

Proline Energy Resources Inc. Sugar Land, Texas (Remote)
Petroleum Engineering Intern | Oil and Gas *September 2025 – Present*

- Supported GasMine, a Proline spin-off that converts stranded natural gas into power for AI and Bitcoin data centres.
- Support asset management and field operations across a portfolio of around 80 Texas oil and gas wells, coordinating remotely with field staff on wellhead management, pressure testing and crude sales.
- Manage regulatory compliance and filings with the Railroad Commission of Texas; contributed to an environmental programme application covering 290 marginal wells.
- Develop Python, Streamlit and Excel VBA tools that automate reporting, data processing and well mapping across operations and compliance.
- Supervise and mentor an intern in the regulatory and compliance team.

Chevron Nigeria Limited Lekki, Lagos
Facility Engineering Intern | Oil and Gas *February 2024 – July 2024*

- Executed tasks for the Tank Repair and Upgrade Projects, ensuring timely completion and a 10% reduction in project delays.
- Managed material take-offs (MTOs), drafted requests for work estimates (RWEs) and tracked procurement for the JV Vent Gas Management Project.
- Conducted inspections at the JV Escravos terminal, improving project efficiency by 7%.

PZ Cussons Ikorodu, Lagos
Automation Engineering Intern | Consumer Products *July 2023 – October 2023*

- Operated and maintained production and utility lines, optimising production efficiency by 15%.
- Ensured optimal machine conditions, reducing downtime by 20%.

LEADERSHIP & EXTRACURRICULARS

Cowrywise Remote
Graduate Ambassador (previously Student Ambassador and Bells Design Manager) *February 2024 – Present*

- Engaged in community outreach, contributing to a 20% increase in Cowrywise brand awareness among students.
- Managed design requests and ensured prompt delivery, improving turnaround time by 15%.
- Co-founded WetinLast for the Ambassadors Innovation Challenge 2026: a WhatsApp-based platform that connects Nigerian drivers to car spare-parts dealers, with up to 10 dealer quotes per request, AI-assisted price negotiation in Pidgin and a mechanic fitment check before payment.
- With two teammates, built and deployed the live website, WhatsApp bot and internal operator dashboard, and developed the business model and pitch deck.

Bells University Student Editorial Committee Hybrid
Media Director / Executive *July 2024 – July 2025*

TEDxBellsTech Hybrid
Media Director / Executive *April 2024 – June 2025*

SKILLS & INTERESTS

Engineering: Control systems, fuzzy logic control, embedded systems, mechatronics design, mechanical and electrical design, CNC programming

Programming: Python (incl. Streamlit), Excel VBA, C, C++, MATLAB, SQL (PostgreSQL, MySQL), HTML, CSS

Tools: SolidWorks, CAD, Arduino, GIS mapping, Microsoft Planner, Microsoft Office, Adobe Suite (Photoshop, Illustrator, InDesign)

Professional: Project management, team collaboration, communication, leadership

Interests: Chess, art, football, nature