

AKINGBOYE OLUWATOSIN

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Professional Summary

Highly skilled Electrical and Automation Engineer who is able to provide hands- on services ascribed to electrical installation, automation (pneumatics, electro pneumatics, programmable Logic control (PLC), motor controls, sensor technology pumps and compressors, mechanical drives, maintenance in according to schematics, wiring diagrams and other specifications. Adept at identifying issues, troubleshooting also offering solutions to problems and minimize downtimes. On a personal level I possess a strong understanding of work ethics and best practices, and a commitment to team work and excellence.

Education

Qualification	Institution	Status
City & Guilds Level 5 Higher Professional Diploma (Electrical & Electronics Engineering)	City & Guilds, UK	In View – December 2026
City & Guilds Level 3 Professional Diploma (Electrical & Electronics Engineering)	City & Guilds, UK	Completed
Certificate of Proficiency (Electrical Engineering)	Institute for Industrial Technology, Nigeria	October 2020

SKILLS & COMPETENCES

TECHNICAL SKILLS

- PLC Programming (Schneider EcoStruxure, Siemens S7)
- Industrial Automation & Control Systems
- VFD Configuration & Troubleshooting

- Industrial Sensor Integration
- Electrical Panel Design & Wiring
- Safety PLC Programming
- HMI Integration
- Predictive Maintenance (Thermal Imaging, Vibration Analysis)
- Root Cause Analysis & Fault Diagnosis

Experience:

AUTOMATION & CONTROL SYSTEMS ENGINEER | [Arthia Electronic System Integrators Limited] | LAGOS, NIGERIA | JUNE 2025– PRESENT

- Execute complete electromechanical overhauls of legacy revolving doors, automatic sliding doors, and roller shutter systems, replacing outdated relay-based controls with modern -based architectures, achieving improvement in energy efficiency and 99.5% operational uptime
- Partner with **global manufacturers** including **ASSA ABLOY, FAAC, Dormakaba, and Boon Edam** to implement **OEM-standard retrofit solutions**, ensuring compliance with **EN 16005 safety standards** and manufacturer specifications for high-traffic commercial environments
- **Reprogram and optimize legacy systems**, integrating **variable frequency drives (VFDs)** and **servo motor systems** for precision speed control and reduced mechanical wear.

Efficiency Optimization & Energy Management: • Implement **intelligent drive systems** and **lowpower standby modes** that reduce **energy consumption by up to 20%**.

- Optimize **door operation profiles** using **traffic flow analysis**, adjusting **opening/closing speeds**, **hold-open times**, and **sensor sensitivity** to minimize **HVAC energy losses** while maintaining **user convenience** and **accessibility compliance**

Control System Programming & Integration: • Program **ladder logic** and **function block diagrams** for **automated entrance sequences**, implementing **safety logic monitored stops**, **anti-pinch algorithms**, and **emergency reverse functions** using **Schneider EcoStruxure**

- Integrate **multi-sensor safety arrays** including **laser scanners**, **microwave motion detectors**, **pressure-sensitive safety edges**, and **infrared presence detectors** to create **redundant safety systems** that prevent entrapment and collision incidents in high-traffic environments
- Interface automated entrance systems with **Building Management Systems (BMS)** via **BACnet** and **Modbus protocols**, enabling **remote monitoring**, **fault diagnostics**, and **energy consumption tracking** through centralized facility management platforms

Commissioning & Quality Assurance: • Lead **commissioning and handover** of retrofitted systems, conducting **safety validation tests**, **performance benchmarking**, and **operator training** to ensure seamless transition from legacy to modernized control architectures

- Document **as-built schematics**, **PLC programs**, and **maintenance manuals** for knowledge transfer; prepare **daily activity reports** and **root cause analysis documentation** for client review and warranty compliance

Technical Consultation & Client Support: • Provide **engineering consultancy** to facility managers and architects on **entrance system selection**, **BMS integration strategies**, and **ADA compliance** for new construction and renovation projects

- Diagnosed and resolved **complex faults** in **revolving doors**, **automatic sliding doors**, **swing door drives**, and **roller shutters**, delivering **rapid resolution** to **minimize client operational disruption**

Key Achievements: • Retrofitted **10+ automated entrance systems** across, **commercial banks**, **hotels**, **hospitals**, and **retail complexes** • Reduced **emergency call-out frequency by 40%** through implementation of **predictive maintenance protocols** and **remote diagnostics capabilities**

FACILITY - TECHNICIAN | NUPAT-TECHNOLOGIES | AUGUST 2022 to DECEMBER 2023

- Performed **routine electrical maintenance** including **lighting replacements**, **socket repairs**, **breaker resets**, and **basic wiring troubleshooting**; conducted **visual inspections** of electrical panels to identify faults and report complex issues
- Executed **general maintenance tasks**; **plumbing repairs**, **door adjustments**, **furniture assembly**, **painting**—responding to **daily work requests** to minimize workplace disruptions
- Maintained **safety compliance** through adherence to **electrical safety protocols** and **PPE usage**.

- Documented **daily maintenance activities** and **materials used** in **maintenance logs**; monitored **supply inventory** and prepared **simple reports** on completed work

ADMINISTRATIVE & MAINTENANCE OFFICER | RPL-LOGISTICS | LAGOS, NIGERIA | SEPTEMBER 2021 – JULY 2022

- **Fleet Cost Optimization:** Reduced **monthly fuel expenses by 20%** through **systematic documentation** and **data-driven analysis of vehicle routes**, identifying **inefficiencies** and **optimizing driver behavior**
- **Preventive Maintenance Program:** Decreased **vehicle downtime by 30%** by creating **structured maintenance schedules**, **analyzing recurring faults**, and implementing **root cause corrective actions** to eliminate repeat failures
- **Asset Management:** Supervised **maintenance of company vehicle fleet** and **installation of office inventories**; ensured vehicles remained in **optimal operational condition** for **maximum reliability**
- **Data Analytics & Reporting:** Prepared **monthly and quarterly dashboards** for **cost analysis**, **vehicle maintenance KPIs**, and **inventory activities**—providing **management visibility** into **operational performance**
- **Team Training & Development:** Conducted **regular meetings with drivers and riders** to reinforce **best practices**, **safety protocols**, and **address operational complaints**, improving **fleet compliance** and **driver accountability**

MAINTENANCE TECHNICIAN | BANNER ENERGY LIMITED | LAGOS, NIGERIA | MAY 2021 – SEPTEMBER 2021

- **System Commissioning:** Commissioned **LPG storage tanks**, **control boards**, and **plant accessories**, ensuring compliance with **safety standards** and **operational specifications**
- **Equipment Maintenance:** Serviced and replaced **LPG plant accessories** including **strainers**, **diaphragms**, **vapor extractors**, **filling nozzles**, and **valves** to maintain **system integrity** and **prevent leaks**
- **Instrumentation Installation:** Installed and calibrated **auto-filling scales** and **dispensers**, ensuring **accurate measurement** and **regulatory compliance**

- **Safety Compliance:** Conducted **safety checks on skid plants**, verifying **pressure ratings**, **emergency shutdown systems**, and **leak detection protocols**
- **Electrical Troubleshooting:** Analyzed and repaired **faults on electrical panels**, ensuring **safe power distribution to critical plant equipment**

ELECTRICAL TECHNICIAN | APICE-GROUP POWER SOLUTIONS | LAGOS, NIGERIA | MARCH 2021 – APRIL 2021

- **Power System Installation:** Installed **inverters (3KVA, 6KVA, 10KVA)**, **UPS systems**, and **surge protection devices**, ensuring **reliable backup power** and **equipment protection**
- **Preventive Maintenance:** Planned and executed **regular inspections** of **power equipment**, **electrical connections**, and **battery systems** at **strategic client locations** to ensure **optimal performance**
- **Troubleshooting & Repair:** Diagnosed and repaired **faulty electrical components** including **inverters** and **solar panels**; performed **DC and AC wiring connections** according to **safety standards**
- **Technical Documentation:** Prepared **daily reports** and **system analysis documentation**, tracking **equipment performance** and **maintenance activities** for **client records**
- **Client Support:** Provided **technical information** and **engineering support** to clients; **collaborated with technicians, engineers, and project managers** to **deliver projects on time** and **achieve set objectives**

INDUSTRIAL ATTACHMENT TRAINEE | VEEVEE PAPER PRODUCTS LTD | LAGOS, NIGERIA | MAY 2019 – APRIL 2020

- **Automation & Controls:** Troubleshoot, repaired, and installed **electrical devices** including **control panels**, **distribution panels**, **electric motors**, and **automated devices—sensors, pneumatic/electro-pneumatic valves, and variable speed drives (VSDs)**
- **Packaging Operations:** Operated **packaging machines** across **printing, corrugation, and quality check sections**, gaining foundational **FMCG manufacturing exposure**

- **Mechanical Maintenance:** Repaired and maintained **mechanical drive components—pumps, chains, sprockets, and bearings; fabricated and welded** broken machine parts to **engineering specifications**
- **Quality Assurance:** Ensured **boards and materials** met **quality standards** during **production processes**, supporting **product integrity**
- **Technical Reporting:** Prepared **daily activity reports** documenting **maintenance work, equipment status, and production support activities**

Reference

Available on request