

Isaac Miracle

Clinical Operations & Biomedical Engineering Associate

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Personal Profile

Highly analytical Biomedical Engineering graduate (**Second Class Upper, CGPA 4.18/5.0**) with hands-on experience in clinical hardware commissioning, troubleshooting, and medical equipment training. Proven track record in public health-care systems executing preventive maintenance, dialysis calibration, and ICU installations. Combines technical engineering foundations with active **CCNA systems training** and certified AI workflow proficiency. Ready to deliver immediate value in clinical engineering, field service, and hardware-network support roles.

Technical Arsenal & Core Skills

- **Clinical Hardware:** Neonatal incubators, dialyser calibration, infant warmers, autoclaves, ventilators, CPAP, and patient monitors.
- **IT & Systems:** TCP/IP networking, routing & switching, Cisco Packet Tracer, and hardware-software integration.
- **Operations & QA:** Corrective & preventive maintenance (PPM), clinical staff training, inventory log tracking, and advanced Excel.

Clinical & Engineering Experience

Biomedical Engineering Intern (SIWES) | *Gbagada General Hospital, Lagos* **March 2024 – September 2024**

- **ICU Commissioning:** Configured, tested, and installed critical care equipment (ventilators, CPAP, NIV units, patient pumps, and hydraulic beds) for the hospital's newly opened Intensive Care Unit.
- **Clinical Staff Training:** Co-delivered technical safety training for ward nurses on incubator and autoclave systems, **reducing user-induced equipment damage** and emergency repair requests.
- **Hardware Redesign:** Redesigned an infant baby warmer prototype within a 3-man team, improving thermal performance and structural safety metrics.
- **Specialised Calibration:** Calibrated clinical hemodialysis systems at the Dialysis Centre to verify patient-critical flow rates and safety threshold compliance.
- **Preventive Maintenance:** Performed routine diagnostics and maintenance on neonatal incubators, **reducing critical ward equipment downtime by 15%**.

Operations & Research Intern | *Medical Research Institute, Yaba, Lagos* **October 2023 – February 2024**

- **Telemetry Auditing:** Conducted diagnostic integrity checks on an IoT-enabled clinical telemetry platform to maintain real-time patient data transmission.
- **Database Management:** Structured medical device registries for 8 senior investigators, streamlining research data retrieval times.
- **Safety Standards:** Followed institutional safety and documentation protocols to maintain accurate clinical equipment safety logs and data registries.

Technical & Engineering Projects

Lead Developer & Coordinator | *IoT Patient Monitoring System (B.Eng. Capstone)* **September 2024 – June 2025**

- Designed, programmed, and debugged a wireless health telemetry system prototype across 3 development sprints.
- Authored a comprehensive 40-page technical specification, system schematic, and calibration manual.

Volunteer Technical Analyst | *Community Solar Electrification, University of Ilorin* **November 2024**

- Installed localized solar power systems for a school and hostel, executing load-sizing calculations and budget management.

Education & Certifications

- **B.Eng. in Biomedical Engineering** (Second Class Honours, Upper Division) **2019 – 2025**
University of Ilorin, Nigeria | **CGPA: 4.18 / 5.0**
- **Google AI Essentials Certification** (Generative AI, prompting, and workplace automation) **2026**
- **Cisco Certified Network Associate (CCNA)** (Routing, switching, and systems security) **In Progress**