OYEKANMI IBRAHEEM OYELEKE

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PROFESSIONAL SUMMARY

Resourceful and multi-disciplinary Petroleum & Gas Engineer and Systems Developer blending core energy production engineering, hardware-software integration, and front-end web development. Proven capability in designing IoT-based safety systems, writing C++ microcontroller firmware, and applying hands-on automotive diagnostics. Adept at translating complex engineering concepts into functional digital and physical solutions while maintaining robust technical documentation and administrative efficiency.

TECHNICAL SKILLS

- **Engineering & Operations:** Petroleum & Gas Engineering, Oil Production Management, Technical Documentation, System Safety & Mitigation.
- **Hardware & IoT:** ESP32 Microcontrollers, GSM Modules, MQ-5/MQ-6 Gas Sensors, Solenoid Valves, Local LED & Buzzer Alert Integration, C++ Firmware Prototyping.
- **Web Development & Tools:** HTML5, CSS3, JavaScript, Responsive Design, Git, GitHub, Version Control, Deployment via GitHub Pages.
- **Digital Productivity & Office Tools:** Microsoft Office Suite (Word, Excel, PowerPoint), Google Workspace (Docs, Sheets, Slides), Professional Report Writing, Rapid Data Entry, and Touch Typing.
- **Diagnostics & Maintenance:** Automobile Diagnostics, Troubleshooting, Precision Mechanical Maintenance.

PROJECTS & EXPERIENCE

Development and Implementation of an IoT-Based Dual-Zone LPG Leakage Detection & Automated Mitigation System *(Final Year Capstone Project)*

- **System Architecture & Assembly:** Designed, built, and programmed an automated safety system using an ESP32 microcontroller and custom C++ firmware to detect Liquefied Petroleum Gas leaks across dual zones.
- **Sensor & Hardware Integration:** Integrated MQ-5/MQ-6 gas sensors, solenoid valve actuators, and a GSM module to facilitate real-time hazard detection and automated gas flow shutoff.
- **Local Alert Mechanism:** Engineered an immediate local warning system utilizing synchronized LED indicators and buzzer alerts alongside remote SMS notifications.

Student Industrial Work Experience Scheme (SIWES) — Climax Lubricants (June 2025 – October 2025)

- **Operational Exposure:** Applied core engineering principles to assist in lubricant production, quality control, and operational management tasks within an industrial environment.
- **Equipment & Plant Maintenance:** Collaborated with technical maintenance teams to inspect, troubleshoot, and service production machinery and plant equipment, emphasizing safety compliance and operational efficiency.
- **Technical Documentation:** Utilized office tools and structured reporting protocols to document daily operational logs, maintenance checks, and production workflows.

Personal Web Portfolio & Digital Branding *(ibraaheem01.github.io)*

- **Front-End Development:** Engineered and deployed a responsive personal portfolio website from scratch utilizing HTML5, CSS3, and modern JavaScript.

- **Visual & User Experience:** Implemented a custom dark-mode aesthetic featuring a rich black and crimson red color palette, custom typography, and a smooth preloader, with live deployment via GitHub Pages.

EDUCATION

Federal University of Technology Minna (FUTMINNA)

- **Bachelor of Engineering (B.Eng.) in Petroleum and Gas Engineering** (Graduated: 2026)
- Relevant Coursework: Reservoir Operations, Production Management, Fluid Mechanics, Drilling Engineering, and Safety Systems.