Samuel Ojima Idakwo

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PROFESSIONAL SUMMARY

Process Engineer and Full-Stack Developer with expertise in hydrogen generation, refinery operations, and environmental risk modeling, combined with MERN Stack and Python development. Experienced in building digital tools and dashboards to optimize industrial processes, monitor emissions, and improve operational efficiency.

TECHNICAL SKILLS

- Hydrogen Generation & Refinery Operations
- MERN Stack (MongoDB, Express.js, React, Node.js)
- SQL & Database Management
- HTML, CSS, JavaScript
- Data Visualization & Dashboard Development

EDUCATION

M.Sc. Chemical & Polymer Engineering – Lagos State University **2025**

B.Sc. Chemical Engineering – Abubakar Tafawa Balewa University, Bauchi **2013 - 2019**

PROFESSIONAL EXPERIENCE

Learning & Development – PLP (MERN STACK Engineer) | 2024 - Present

- Hands-on learning in production engineering, industrial optimization, and software integration workflows.
- Frontend Design
- Gained experience in MERN Stack applications and digital industrial tools.

Process Engineer – Hydrogen Generation Unit | Dangote Refinery & Petrochemical Company, Lagos | 2023 – Present

- Operate and optimize hydrogen generation processes, monitoring plant efficiency and emissions.
- Implement data-driven monitoring tools to track process variables and CO_2 emissions.
- Collaborate with software developers to integrate industrial data with digital dashboards.

Field Operation Engineer – Ammonia Gas Plant | Notore Chemical Industries PLC | 2020 – 2023

- Supervised daily plant operations, troubleshooting process issues in real-time.
- Ensured compliance with environmental and safety standards.
- Assisted in automation and digitization initiatives for process monitoring.

PROJECTS

CarbonTrack – Real-time CO_2 emissions dashboard for hydrogen, ammonia, and gas plants. [Live Demo](https://carbon-track-nine.vercel.app/)

NaijaGreen Bottles – Recycling awareness website for PET collection initiatives in Nigeria. [Live Site](https://naijagreen.netlify.app/)

Visionary Agriculture (AI Farming) – AI-powered crop recommendation & soil analysis system. [Live Demo](https://collinsmoseti.github.io/planet2/)

ADDITIONAL INFORMATION

Strong interest in process optimization and sustainable tech solutions.

Passion for software development and AI integration in industrial applications.

Excellent communication and team collaboration skills.