Mechatronics Engineer | Systems Data Analyst

RICHARD JEGEDE

+2348020966285 | richardjegede.eng@gmail.com/
https://www.linkedin.com/in/richard-jegede /
https://richardjegede.github.io/portfolio/
Lagos, Nigeria

Professional Summary

I am a **Mechatronics Engineer** and **Systems Data Analyst** who loves building things that work. I specialize in joining **hardware with software**, from building **robotic prototypes** to setting up **data pipelines** with **Python and SQL**. With my **HSE certifications** and a solid background in **database management**, I focus on using **Industry 4.0 tech** to solve real-world problems. I don't just analyze data; I also understand the machines that create it.

Education

HND, Mechatronics Engineering |The Polytechnic Ibadan, Oyo State, Nigeria   Jul 2022
Grade: **Upper Credit (CGPA: 3.33/4.00)** |Focus: Robotics & Control Systems.

Technical Skills

- **Engineering & Safety:**
  Robotics, Control Systems, Embedded C, HSE 1, 2, & 3.
- **Data Science & AI:**
  Python (Pandas, BeautifulSoup), R (Shiny), PyTorch.
- **Systems Development:**
  JavaScript (React.js, Node.js), PHP, HTML/CSS.

- **Analytics & BI:**
  Power BI (DAX, Power Query), Advanced Excel (VBA, Pivot Tables).
- **Databases:**
  SQL (MS SQL Server, MySQL), Oracle DBMS, API Integration.

Technical projects

Robotics & Control Systems

- **Intelligent Elevator Control Model**: I built a functional multi-floor lift from scratch, handling the mechanical frame, sensor wiring, and motor drivers. I programmed the logic in **Embedded C** to manage floor requests and ensure smooth, safe vertical movement.

- **Remote-Controlled Forklift**: I designed and fabricated a motorized forklift for heavy lifting, personally calibrating the **motors** and **wireless modules** to ensure zero-latency response and precise control during load handling.

Data Analytics & BI

- **Amazon web Scraper**: I built a custom **Python (BeautifulSoup)** scraper to monitor competitor prices. I analyzed this data to identify market trends and customer sentiment, helping to drive better pricing strategies.

- **Employee Insights Dashboard**: I took a messy, large-scale dataset from **Kaggle** and cleaned it using **Excel** and **Power BI** to build a dashboard that visualized key workforce metrics and identified staffing gaps.

Work Experience

Facilities Engineer (Consultant)| Private Residence, Lagos   May 2025 - Present
- I manage the day-to-day operations and security of a high-value residential property, ensuring **100% facility uptime** and maintenance.
- I oversee the **electrical and mechanical systems** of the building, performing routine checks on power backup systems and water treatment logic.
- I handle the logistics of property upkeep, managing **vendor relations** and ensuring they do quality work and don't overcharge.

Data Warehouse & BI Intern| Evolve connect, Lagos   Mar 2023 – Feb 2024
- Handled the installation and upgrades for **MySQL, MS SQL Server, and Oracle** databases, ensuring the integrity and performance of critical data infrastructure.
- Used **SSIS and Power BI** to automate weekly financial reports, transformed raw data into actionable insights for management planning.
- Collaborated with analysts to **validate reports**, ensuring data accuracy between backend systems and dashboards.

Certifications

- **National Youth Service Corp (NYSC)–Discharge Certificate–** Akwa-Ibom   April 2025
- **Sympony Global Institutes for Occupational Safety, Health and Environment (HSE1,2&3)–**SGI Uyo   Mar 2025
- **Data analytics Bootcamp for data scientist –** Alex Analytics LLC   Jan 2025