

SAMUEL WAHOME MICHINJI

Kenyan | P.O. Box 52428 – 00200, Nairobi, Kenya
+254798984949 | wahomesamuel663@gmail.com | [LinkedIn](#) | [GitHub](#)

SUMMARY

- Detail-oriented Industrial and Applied Chemist with over four years of experience in production operations, quality control, and process optimization.
- Skilled in data analytics, paint technology, and Kaizen practices. Passionate about leveraging data-driven solutions to enhance industrial efficiency and sustainability.
- Currently upskilling in Data Science and Machine Learning to bridge the gap between industrial chemistry and advanced analytics.

EDUCATION

Technical University of Kenya – Nairobi, Kenya **September 2015 – December 2019**

Bachelor of Technology (Industrial and Applied Chemistry)

- Second Class Honors (Upper Division)
- Relevant Coursework: Analytical Chemistry, Process Engineering, Industrial Safety, Research Methodology

Joetech Computer Training Center – Nairobi, Kenya **January 2015 – March 2015**

Certificate in Computer Proficiency

WORK EXPERIENCE

Production Operator **February 2020 - Present**

Synresins Kenya Ltd – Nairobi, Kenya

- Operate and monitor resin production processes, ensuring adherence to safety and quality standards.
- Collaborate with cross-functional teams to optimize production workflows, reducing downtime by 15%.
- Conduct quality control tests on raw materials and finished products, ensuring compliance with ISO standards.
- Implement Kaizen methodologies, contributing to a 10% increase in production efficiency.
- Train and mentor new operators on SOPs and safety protocols.

Industrial Chemist (Intern) **May 2019 – August 2019**

Ministry of Petroleum and Mining – Geological Surveys Laboratories – Nairobi, Kenya

- Conducted chemical analysis of mineral samples, supporting geological surveys for national projects.
- Assisted in the calibration and maintenance of laboratory instruments (AAS, XRF, UV-Vis Spectrophotometer).
- Documented and compiled detailed analytical reports for stakeholders.

VOLUNTEER ACTIVITIES

Predictive Job-Matching AI Platform | ALX Professional Foundations Course

January 2025 - March 2025

- Collaborated with a team to design an AI-powered job-matching system tailored to Kenyan graduates.
- Conducted user research, created wireframes, and developed pitch presentations for stakeholders.
- Led the video recording and editing process for the final project presentation.

Machine Learning Models for Industrial Process Optimization | Personal Project

February 2025 - March 2025

- Applied Python (scikit-learn, pandas, TensorFlow) to develop predictive models for process improvement.
- Used exploratory data analysis (EDA) and feature engineering to enhance model accuracy.

SKILLS

Data Analytics (Python, SQL, Power BI, Excel)	Machine Learning & Predictive Modeling	Laboratory Analysis & Instrumentation
Process Optimization & Quality Control	Kaizen & Lean Manufacturing	Project Coordination & Team Leadership

CERTIFICATIONS

Google Data Analytics Professional Certificate	ALX Data Science Program (In Progress)	OSHA Safety Training & Kaizen Methodology
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INTERESTS

Data Science & AI Applications in Industry	Sustainable Manufacturing & Green Chemistry	Technology for Africa's Industrial Growth
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LANGUAGES

Kiswahili - Native	English - Expert	Kikuyu - Native
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