

Samuel Wahome Michinji

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Willing to Relocate: Globally

Career Profile

Results-driven Industrial Chemist with 5+ years' experience in synthetic resin manufacturing, specializing in emulsion and alkyd resins for decorative and industrial coatings. Proven track record in process optimization, quality control, and continuous improvement—achieving measurable product stability, cycle time, and plant efficiency gains. Adept at collaborating with cross-functional teams to innovate formulations, troubleshoot production challenges, and deliver products exceeding quality specifications.

Professional Experience

Production Operator

Synresins Kenya Ltd | Feb 2020 – Present

Leading manufacturer of synthetic resins for coatings and paints

- **Optimized polymerization parameters** to improve emulsion stability and uniformity, reducing defect-related reworks by **20%**.
 - **Cut batch cycle time by 15%** through Kaizen and process streamlining, boosting output without compromising quality.
 - Led troubleshooting initiatives to resolve emulsification challenges (phase separation, foaming, raw material variability), restoring production continuity within tight deadlines.
 - Trained and mentored junior operators, increasing team competency and reducing onboarding time by **30%**.
 - Ensured **100% compliance** with SOPs, GMP, and ISO 9001 standards, strengthening audit readiness.
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Industrial Chemistry Intern

Ministry of Petroleum and Mining – Directorate of Geological Surveys Laboratories | Jul 2019 – Oct 2019

- Conducted **elemental and compositional analyses** on mineral samples using AAS, UV-Vis, and titration, achieving precise assay results for metallurgical projects.
 - Supported refining trials that enhanced yield recovery by **5%** in select test runs.
 - Maintained accurate lab records and prepared chemical reagents in strict adherence to ISO quality protocols.
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Key Achievements

- Delivered **consistent batch quality** that met or exceeded client specifications across 5 consecutive years.
 - Pioneered improvements in emulsification control, resulting in **longer shelf life** for select resin grades.
 - Recognized by management for **zero safety incidents** over 4 years of production operations.
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Education & Certifications

- **B.Tech. Industrial & Applied Chemistry** – Technical University of Kenya | 2015 – 2019 | Second Class Honors (Upper Division)
 - **Certificate in Computer Proficiency** – Joetech Computer Training Center | 2015
 - **KCSE** – Peter Kariuki Secondary School | 2011 – 2015 | B+ (69 points)
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Technical & Professional Skills

- **Resin Technologies:** Emulsion & alkyd resin synthesis, polymerization chemistry
 - **Analytical Methods:** AAS, UV-Vis, pH meter, titration, Karl Fischer, Brookfield viscometer
 - **Production Tools:** SCADA, ERP systems, batch documentation
 - **Quality Systems:** ISO 9001, GMP, Kaizen, Lean Six Sigma principles
 - **Software:** MS Office Suite, Excel (data analysis), Power BI (basic), Python
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Core Competencies

- Process optimization & quality assurance
 - Production troubleshooting & root cause analysis
 - Safety compliance & regulatory adherence
 - Leadership, training & cross-functional collaboration
 - Data-driven decision-making
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References available upon request