MWILA MOLOBEKA
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PROFESSIONAL SUMMARY

Chemistry graduate with 6 months industrial laboratory experience in copper and cobalt assay, metallurgical sample preparation, and QA/QC systems at Konkola Copper Mines. Strong ability in Atomic Absorption Spectrophotometry (AAS), electrogravimetry, statistical quality control, and environmental sample analysis. Proven ability to deliver precise, production-critical analytical results in high-volume mining laboratory environments.

EDUCATION

Bachelor of Science in Chemistry
Copperbelt University | Kitwe, Zambia
Relevant Coursework: Analytical Chemistry, Organic Chemistry, Environmental Chemistry, Inorganic Chemistry, Biochemistry

PROFESSIONAL EXPERIENCE

Industrial Attachment | Konkola Copper Mines (KCM), Analytical Services Laboratory | Oct 2024 – Jan 2025

Graduate Internship | Konkola Copper Mines (KCM), Analytical Services Laboratory | Jan 2026 – Jul 2026

- Operated and supported analytical instruments including Atomic Absorption Spectrophotometry (AAS) for copper and cobalt concentration analysis.
- Performed high-precision electro gravimetric analysis of total copper in metallurgical and geological samples, contributing to reliable assay reporting for operational decision-making.
- Prepared and processed metallurgical samples from mining operations following strict protocols.
- Analysed leach plant liquors, organics, and environmental samples.
- Supported QA/QC programs through statistical evaluation of analytical data.
- Adhered to safety and first aid protocols in a mining environment.

Laboratory Analyst Assistant | Sinomine Kitumba Mineral Resources | August 2026

- Preparation of mining and geological samples
- Supporting QA/QC procedures through following Standard Operating Procedures
- Reagent preparation
- Following strict safety protocols

PROJECTS

Eucalyptus Oil Extraction & Soap Formulation | Final Year Project

- Designed and assembled steam distillation apparatus for essential oil extraction from Eucalyptus leaves.
- Optimized extraction parameters (temperature, solvent ratios) to improve yield and efficiency.
- Troubleshooting operational challenges including emulsion formation.
- Formulated functional soap using extracted eucalyptus oil.

SKILLS

- Laboratory Techniques: Atomic Absorption Spectrophotometry (AAS), Electrogravimetry, Titration, Solvent Extraction, Distillation, Sample Preparation
- Data Analysis & QA/QC: Statistical Data Evaluation, Laboratory Reporting, Quality Control Procedures
- Software: Microsoft Office (Excel, Word, PowerPoint), Python (Basic)
- Professional: First Aid Trained, Safety Protocols, Team Collaboration, Meticulous Analysis

KEY COMPETENCIES

- Copper & Cobalt Assay
- AAS Operation & Calibration
- Electro gravimetric Copper Determination
- Metallurgical Sample Prep
- QA/QC Statistical Monitoring
- Laboratory Safety Compliance
- Environmental Sample Testing
- Data Reporting & Documentation

REFEREES

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