



Francis Nkandu Masuwa

Mining Engineer



Personal Info

Zambian Citizen

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Languages

English



Bemba



Lamba



Nyanja



Core Skills

Mining Operations



Project Management



Monitoring & Evaluation



Data Management & Analysis



Report Preparation



Program Coordination



Workplace Health & Safety



CAD Expertise



Professional Profile

- Professional Mining Engineer in open pit and underground operations and Surveyor with more than 16 years mining and construction experience in highly mechanized and labour intensive environments.
- Expertise in fast track and development of declines and inclines using jumbo, LHDs and jack hammer, scraper winches and air loaders.
- Expertise in Open stopping, vertical crater retreat, Room Pillar, Block caving and Sub level open stopping
- Expertise in mine planning- designing waste and ore dumps, construction, heavy haul management, and high volume dewatering and blast control management.
- Strong ability to organize and analyze development and production statistics to ensure that machine are being operated efficiently;
- Experienced in producing weekly, monthly, and yearly shovel/dragline and auxiliary equipment mining plans.
- Experienced in using software such as GEMCOM-SUPARC-MINE SHCHED, AUTOCAD and MICROSTATION DESWIK and GEOGRAPHICAL INFORMATION SYSTEMS (GIS) - ARCVIEW Highly professional in producing detailed survey layouts, topography maps, plans and sections, mine plans layouts and dopes. Other softwares such as Data Mine Studio UG – Mine Planning, Data Mine MSO –Mineable shape Optimizer Data Mine Aegis –ring Design and Blaster Analysis, Data Mine EPS –Mine Capable
- Scheduling, Data Mine Studio –Open Pit design and scheduling.



Work Experience

Feb 2021
To present

Mine Captain/ Production Mining Engineer, Nchanga Underground mine

Konkola Mineral Resources, Chingola (same Company changed the name)

Mine Captain/ Production Mining Engineer

Nchanga Underground mine - Konkola Copper

MinePLC Key responsibilities:

- Providing leadership and direction in the achievement of mining and production goals with the highest level safety
- Ensuring mining teams have clear understanding of production expectations required performance levels measures
- Practicing open communication with miners.
- Maintaining safety and environment practices through regular inspections and observation.
- Enforcing mining regulations and explosive regulations

Nov 2016 -
Feb 2021

Development and Production Mining Engineer

Konkola Underground - Konkola Copper Mine PLC

Key responsibilities:

- Provided leadership and direction in the achievement of mining ddevelopment and production goals with the highest level safety
- Ensured mining teams have clear understanding of production expectations and required performance
- Planned and coordinated multiple teams and supervising a large, number of underground machines such as Jumbos, Loaders Dump trucks.

Dec 2018 -
Nov 2019

- Conducting daily inspection and enforcing of mining regulations and explosive regulations

● **Staff Development**

Nchanga Underground - Konkola Copper Mine PLC

Hands on training in the following:

- General timbering
- Crew Boss
- Section Boss
- Shift Boss
- Advanced supervisory training.

Dec 2008
2016

● **Sectional Surveyor**

Nchanga Underground and Open Pits - Konkola Copper Mine PLC

Key responsibilities:

- Established control, data pickup, construction layout, quantity pickup and calculations, manual drafting of transit notes and processing surveys via computer software.
- Extended underground control in all areas of responsibility, extending lines, gradient and picking offsets and Borehole pickups.
- Produced dig plans, staking out blast holes in the pit and grade control.
- Monitored surface subsidence checks.
- Conducted weekly and monthly stock pile reconciliation.
- Conducted underground and open pit monthly measure to quantify work done by miners.
- Updated plans; long section plans and all survey books both on soft and hardcopies.
- Performed all pit surveys as required by mine planners and monitoring as required by law.
- Conducted various engineering surveys i.e. pipe alignment, drainage setting out and power line alignment.



Other Positions Held

May 2008
- Dec 2008

● **Mopani Copper Mine PLC, Mufurila**

Site Sectional Surveyor

Jan 2007 -
May 2008

● **Landing Zambia (Mufurila Mine and other Contractual Jobs)**

Site Manager/ Surveyor

Feb 2006 -
Nov 2007

● **Mpelembe Drilling Company (Konkola Deep Mining and Capital Projects)**

Surveyor

Mar 2003 -
Feb 2006

● **AAC Mining Executors Ltd Sob Shaft and Mufulira Deep**

Trainee Surveyor

Dec 2002
- Mar 2003

● **Chibuluma Mine PLC**

Trainee Surveyor

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Freelance Projects Worked On



- recently (2018 to present) working as a consultant on Design and Setting up of mine waste dump and Ore dumps at Mimbula Open pit - Kassco
- Plant drainage Terrance and roads setting out- Lubambe mine- Chililabobwe
- Setting out more than 100 plots and houses at Rap- housing projects.-Lubambe mine
- Setting out of several structures which included the pack hall at Ndola Brewery- Ukukula project Under WBHO
- Surveying and Setting Out power lines and pole positions for Increase Access to Electricity project in Kitwe and Ndola-Close to 50km on MV and 11KV–World Bank project
- Detailed Surveying and presentation of design in Section and for each pole position of 33KV Distribution lines for 120km.-JICA Project.-Mongu and Senanga
- Topography Surveying ,Cadastral Surveying and Setting out of 74 housing units and a Shopping Mall for- Bitrust real estates – Chililabobwe
- Cadastral surveying of farms, commercial and residential plots for several individual for registered surveyors
- Setting out structures at Mopani acid Plant Upgrade project in Mufurila. Under WBHO
- Bench mark coordinating and setting out of center line on the 70km pedicle Road project on going Kalengwa Road detailed picking for the stretch of 60km Under



Professional Qualifications

- 2020 - present
 - Copperbelt University**
 - Pursuing a Bachelor of Engineering in Geomatics Engineering.
- 2018
 - Copperbelt University**
 - Awarded a Bachelor of Engineering in Mining Engineering
- 2014
 - Kitwe Community Development College**
 - Obtained a Certificate in Community Development
- 2005
 - Copperbelt University**
 - Obtained an Advanced Certificate in Surveying



Certificates

- 2019
 - Certificate of Training: Shift Boss Other Course - *Konkola Copper Mines Plc*
- 2019
 - Certificate of Training: Section Boss Other - *Konkola Copper Mines Plc*
- 2010
 - Certificate of Attendance: Participated in the Student's Leadership in Peace Building Skills Workshop - *The Copperbelt University*
- 2010
 - Certificate of Service - *The Copperbelt University Mining and Metallurgical Engineering Society (CUMMES)*
- 2000
 - Senior School Certificate



Professional Affiliations

- Member of Engineer Institute of Zambia



Licenses

- Valid Blasting License
- First Aid
- Valid Driving License



Extra Curriculum Activities

- Playing Chess, Basketball and the Guitar
- Voluntary worked at Katembula area under Lufwanyama ADP - World Vision 2013



References

- **Mr. Mosses Chibuye - Chief Surveyor, Nchanga**
Konkola Copper Mines
Contact:+26 0978779304
- **Mr. Boniface Kayuni - Principal Surveyor**
Ministry Of Lands
Survey Department Ndola
Cell +260 977 805 376
- **Mr. Martinimba – Assistant underground manager**
Konkola Mineral Resources
Cell +260 966398874
- **Mr. Francis Mbumba - Chief Surveyor**
Mopani Copper Mines Plc
Nkana Mine Site.
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