






## NERVAS MAULU

A hard, dedicated worker seeking new opportunities in the Instrumentation field. Experienced Instrumentation with strong organizational, communication, and multi-tasking skills. Proficient with Microsoft Word, Excel, PowerPoint, Access and computer knowledge. Adaptable Technician with extensive experience providing first-class results. Meets job demands and deadlines through diligent work-ethic and dedication to quality.

Instrumentation-certified Technician with vast experience in effective and efficient operations. Displays outstanding knowledge and practical expertise to provide exceptional all-round service.

Motivated Technician with experience in laboring and groundwork projects. Skilled in safe, responsible maintaining clean, safe, orderly conditions for good site safety.

### CONTACT

-  Solwezi , Zambia ,  
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### CORE QUALIFICATIONS

#### KEY SKILLS & COMPETENCIES:

- Ability to read and interpret PID drawings, electrical drawings and coordinate work with other engineering trades on the job site.
- Good mathematical, scientific, mechanical and logical reasoning abilities.
- Ability and desire to keep up-to-date with technological developments in the field.
- Demonstrated design and engineering experience (with site field experience) for mining and minerals processing, and major infrastructure.
- Demonstration of strong technical knowledge.
- Good trouble shooting and fault finding techniques.

### EXPERIENCE

#### *Instrumentation Technician*

**First Quantum Minerals, Kansanshi Mine - Solwezi, Zambia**

- Identified, eliminated and reported potential plant hazards in the workplace.
- Participated in daily discussion of safety tool box.
- Attended several trainings such as; firefighting, working at heights, confined space, THINK, hazard identification, hand and finger injury, scada, samson positioner, optic fiber trainings.
- Used electrical hand tools during various task execution.
- Laid conduit pipes, signal cables (PA, DP, Hart, Ethernet) and connected appropriate instruments, ensuring proper communication with SCADA system.
- Identified wrong work practices that caused loss of instruments due to inappropriate selection of fuses and circuit breakers, thereby reducing costs to the company by 8%.
- Installed, calibrated and maintained Density meters, Flow, level, Ph analyzers, Gas analyzers, Pressure, Turbidity, Valve-actuators, Temperature, Weight meter instruments, providing preventive maintenance and ensuring they are connected to SCADA.
- Installation, maintenance and testing of fire suppression systems.

- Knowledge on belt scales and conveyor systems
- Knowledge on basic PLCs.
- Enjoys working for long hours and with clearly given instructions, work can be done efficiently and effectively with less supervision.
- Good communication skill and adaptable to people with different backgrounds.
- Able to work under minimum supervision
- Self-motivated, honest and reliable with strong morals and ethics.
- Able to fit and adapt in different departments
- Attention to detail.
- Fast learning abilities.
- Good communication skills.
- Calibration of Crusher Mantles.
- Maintenance, service of Crusher instruments such as: Robotic lights, dust suppression systems, temperature, vibration, oil flow meters, mantle position sensors ,tilt meters, truck position sensors and replacement of faulty ones ensuring both company and safety and quality standards are adhered to, without disruption to the processing plant operation and production.
- Working as a SHIFT COVER in order to attend to plant breakdowns (plant-stoppers).
- Safety compliance
- Wiring of Electrical Motor temperature transmitters.
- Connecting Variable Speed Drives (VSD) and SIMOCODEs to SCADA using Decentralized Peripheral (DP) cable network.
- Calibration of all field Instruments to the required resolution and accuracy.
- Fusion splicing of optic fiber cables.
- Ring optic fiber networking to create a redundancy system.
- Installation of SCADA control workstations (control room).
- Installation of Wireless Access points.
- Construction, installation of Programmable Logic Controller Panels (PLC) and Communication Panel (CPL), including the H-PLC systems.
- Configuration (Hardware) of CPLs using the Siemens Step7 software in order to introduce them to SCADA.
- Following punch lists for rectification of errors on panels.
- Installation, maintenance of CCTV Cameras and networking them using the Ethernet/Optic Modules.
- Maintenance and service of Cathode Striping Machine instruments.
- Maintenance and service of Cathode Edge Strip making machine instruments.
- Conveyor Belt Scale calibration, maintenance and service of belt drift switches and Tachometers.
- Installation and maintenance of Crusher bin truck monitoring level sensors.
- Installation and maintenance of Crusher truck dumping Robotic lights.
- Installed, wired and commissioned Crusher and Mill grease dosing system.
- Serviced and tested Proportional Valve Electric Actuators on electrohydraulic Rock breaker valve banks.
- Parameterized bin level sensors, ensuring Crusher- feeder belt interlocks are effective.

- Excellent manual dexterity
- Safety support
- Tool usage
- Calibration expertise
- Inspection proficiency
- Self-disciplined
- Part inspection
- Team player
- Multidisciplinary teamwork
- Quality focused
- Team supervision.

#### MAJOR PLANTS WORKED ON:

1. Primary Crushers( Gyratory, Jaw and MMD sizer)
2. Secondary Crushers
3. Pebble Crushers.
4. Conveyor belts
5. SAG Mills
6. Ball Mills.
7. Floatation cells.
8. Knelsons Gravity Gold concentrators.
9. Leach plants.
10. Solvents Extraction plants.
11. Electro winning plant.
12. High pressure leaching plant.

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#### ACCOMPLISHMENTS:

- Operator 2005 - 2010 First Quantum Minerals, Kansanshi Mining, Processing department.

#### Responsibilities;

- Process monitoring and control to achieve the set targets for maximum production.
- Identification of potential plant stoppers for appraisal to the area supervisor and Engineering crew for continuity.

- Installed and tested Crusher mantle position sensors.
- Installed and wired plant startup sirens.
- Installed wall and tank Tilt meters.
- Using Relays, wired conveyor belt magnetic metal detectors and ensured automatically operated.
- Constructed, Installed and tested dust suppression systems.
- Constructed, Installed, tested and maintained fire detection and suppression systems.
- Designed, constructed, Installed and wired acid fume suppressant dosing plant.
- Installed, wired, Parameterized valve positioners on actuated valves.
- Worked on Counter-Current Decantation hydraulic unit instruments ensuring all operational and safety interlocks are tested and effective.
- Repaired and maintained flocculants dosing units.
- Approximated quantities and materials and labor needed for a project to be completed, communicating estimates to supervisors for planning purposes.
- Redesigned and developed plant layout, constructed and installed systems according to change proposals, under tight deadlines and without supervision.
- Provided optional solutions to reduce sectional costs by sourcing better suppliers of more robust and efficient measuring instruments.
- Independently tested, maintained and modified existing systems within 1-hour timeframe, beating company deadlines.

#### *Instrumentation Technician*

**Buildcon Investment Limited** - Solwezi, Zambia.

- Designed layouts and built communication panels using Siemens communication I/O, DP/PA couplers, Links cards and OLMs.

- Liaised with safety and fire officers for generation of risk assessment reports to ensure safety of employees and prevention of possible damage to equipment
- Liaising with senior /shift controllers to ensure good results for the process are availed in good time and in conformity with the requirement of the process
- Ensuring quality and in good quantity generation of copper solution for quality production of copper cathodes which will meet customer's expectations.

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## REFERENCES

To be provided on request.

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## AFFILIATIONS

Member of the Engineering Institution of Zambia.  
Membership  
No.0268379936

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## INTERESTS

HOBBIES: Aerobics,  
Reading books, Playing chess, Gardening,  
Watching TV.

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## LANGUAGES

**Kaonde, Bemba:** First Language

**English:** B1  
  
 Intermediate

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## CERTIFICATIONS

- Installed and commissioned PLC panels.
- Rectified communication faults during commissioning.
- Laid Optic fiber cables, spliced and light sourced networks to determine quality of data transmission.
- Installed and networked CCTV cameras for security and monitoring.
- Installed and wired indoors intruder motion sensors.

### ***Process Plant Operator***

**Kansanshi mine** - Solwezi, Zambia.

- Performed pre-start checks to identify mechanical and safety issues, executing fixes to resolve identified problems.
- Cleaned, serviced and lubricated machinery, removing dirt and material waste to extend operational life.
- Recommended plant improvement strategies by reviewing operations and outlining changes for boosting production.
- Moved and positioned machinery for smooth operations between different industrial processes.
- Inspected and audited working areas for rule violations, hazardous items or dangerous activities, reporting problems to managers for intervention.
- Executed operational tests on facility machinery, guaranteeing suitability and safety of equipment for designated purposes.
- Detected process deviations, identified root causes and initiated corrective actions to fix issues.
- Developed and implemented incident avoidance plans, mitigating potential risks to plant operations.
- Selected, fitted or removed attachments from machinery, enabling equipment to perform specific functions.
- Documented plant activities, maintaining detailed and accurate records for accountability and reference purposes.

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## EDUCATION

Current  
**Bachelor of Engineering (Hons) Electromechanical Engineering**

- **Process craft instrumentation certificate**

**Copperbelt University**

2012

**Process Instrumentation Craft Certificate**

**Mufulira Technical Training Institute - Mufulira**

1998

**Grade12 General Certificate**

**Kyawama High School**