

# Nshimba Mwansa

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Laboratory Informatics Officer | Data & Business Intelligence Specialist

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## Professional Summary

A highly results-oriented Monitoring, Evaluation, and Learning (MEL) and data professional with over nine years of experience spanning national laboratory informatics, district-level health information systems, and research. Dedicated to strengthening Zambia's health systems through digital health solutions, laboratory information systems (LIS), business intelligence (BI), and data-driven decision-making. Skilled in project implementation, ICT networking in laboratories, system requirements analysis, training, mentorship, and stakeholder engagement. Expertise includes statistical analysis, scientific writing, capacity building, and dashboard development using modern data technologies. Key highlights include supporting Advanced HIV Disease management through Technical Supportive Supervision (TSS) at districts and facilities, producing Superset dashboards for program monitoring, and leading the development of a tool and comprehensive analysis to assess the impact of the USG Stop Work Order in Zambia.

## Professional Experience

### Ministry of Health – HQ (CDC Cooperative Agreement Project)

Laboratory Informatics Officer (2022 – September 2025)

- Led data management, visualization, and analysis for national health programs (HIV, TB, and Malaria).
- Designed and configured BI dashboards using Metabase, Superset, Power BI, and Tableau.
- Developed weekly reporting tools in KoboToolbox and dashboards in Superset for LIS reporting.
- Managed the national MOH LIS data ensuring reliability and performance.
- Trained as a DISA Superuser; facilitated and coordinated DISA Superuser trainings across Zambia.
- Trained in HL7 FHIR and Diagnostics Networking Data Analysis.
- Participated in and coordinated ICT networking teams in laboratories, including development of ICT drawings specific to laboratory networking.
- Developed a tool to capture LIS requirements for LIS development at MOH.

- Coordinated the Zambia Laboratory Mapping exercise where 635 laboratories were mapped; analyzed and wrote a report.
- Provided Technical Supportive Supervision (TSS) to districts and facilities in management of Advanced HIV Disease, and developed Superset dashboards for AHD monitoring.
- Spearheaded development of a tool to assess the impact of the USG Stop Work Order in Zambia; led a 5-day field assessment and participated in report writing that was delivered to MoH leadership.
- Participated in development of a Kobo/ODK multidisease dashboard.
- Facilitated TWGs on data harmonization and LIMS installation.
- Supported research and publications ensuring integrity of laboratory data sources.
- Utilized RStudio, SPSS, and QGIS for advanced statistical and geospatial analysis.
- Provided mentorship and training to staff on LIS, data management, and visualization.
- Participated in offering TSS on Advanced HIV disease to facilities that were trained on the use of the Visitect Lab equipment

### Ministry of Health – Katete DHO

District Health Information Officer (M&E) (2017 – 2022)

- Led deployment and implementation of SmartCare and DHIS2 systems across district health facilities.
- Extracted and compared laboratory data with health reports for quality assurance.
- Designed data collection tools and questionnaires for district-level research studies.
- Conducted operational and community research activities for public health improvements.
- Mentored facility data coordinators on data management and decision-making.
- Improved data quality through audits and reviews, reducing reporting errors.
- Trained health workers, parents, and adolescents on adolescent health and early marriage prevention.
- Participated in budgeting and planning activities based on data evidence.
- Trained in ICCM and Malaria Data Quality.
- Supported TB program data aggregation and analysis.
- Deployed SmartCare to facilities and supported its utilization with DHIS2.

### ZamStats

Research Assistant (2016)

- Contributed to Resource Flow Survey and ZAMPHIA national surveys.
- Reconciled data for consistency and supervised field teams.

### Ipsos Zambia

Research Assistant (2015)

- Conducted interviews and collected nationwide data on savings, agriculture, and health.

## **Lusaka Social Science & Business Studies Centre**

Part-Time Lecturer (2015)

- Lectured Mathematics, Research, and Entrepreneurship to diploma students.

## **Key Technical Skills**

- Laboratory Informatics & LIS Administration
- Business Intelligence & Data Visualization (Power BI, Tableau, Superset, Metabase)
- ICT Networking in Laboratories (including drawings and coordination)
- Monitoring, Evaluation & Learning (MEL)
- Questionnaire Design & Research Methods
- Data Management & Quality Assurance
- Advanced HIV Disease Program Monitoring (TSS & dashboards)
- Stakeholder Engagement & Capacity Building
- SQL, RStudio, SPSS, QGIS, Excel

## **Education**

- Master of Public Health (Thesis Level) – University of Lusaka, 2017–2018
- Bachelor of Demography – University of Zambia, 2010–2014
- Senior Secondary Certificate – David Kaunda Secondary School, 2006–2008
- Primary Education – Chelstone Basic & Kaunda Square Primary School, 1996–2005

## **Certifications & Trainings**

- Laboratory Informatics Training – APHL & CDC
- DISA Superuser Training & Facilitation – Zambia
- HL7 FHIR Training
- Diagnostics Networking Data Analysis – FIND
- SPSS Certification – University of Zambia
- QGIS Training – GRID3
- ZaMEA Certificate of Membership
- DHIS2 Design for Analytics – HIPS DHIS2 Tanzania
- Microsoft Office Certification – Flaming Fire
- UNICEF Data Training – Harnessing Data to End Harmful Practices
- OptiDx Training Bootcamp – FIND
- Diagnostic Network Optimization – FIND

## Personal Information

- Date of Birth: 3rd March 1988
- Gender: Male
- Marital Status: Married

## Professional References

- Fales Zulu-Mwamba – Chief Biomedical Scientist, MoH | 📞 +260977415241 | ✉️ Falesz@yahoo.co.uk
- Mwango Mutale – Principal M&E Officer, Ministry of Health, Ndeke House, Lusaka | 📞 +260976448480
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