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Pearson Manza

Nationality	Zambian
Date of Birth	03 March 1980
Gender	Male
Membership	The Institution Electrical Electronics Engineering (IEEE) USA The Engineering Institution of Zambia (EIZ) The Engineering Registration Board of Zambia (ERB)

PROFESSIONAL PROFILE

An ambitious technical engineer who enjoys being part of, as well as being a successful and productive team player with a solid Twenty-One years relevant working experience with electrical systems.

Proven abilities in;

- Installations, Operations and Maintenance Management
- Testing and commissioning of transmission assets
- Rationalising problems to produce timely and cost-effective solutions

EDUCATION BACKGROUND

YEAR	INSTITUTION AND COUNTRY	ATTAINMENT
1999 - 2003	THE COPPERBELT UNIVERSITY (KITWE – ZAMBIA)	Bachelor's Degree of Engineering in Electrical Electronics Engineering with Credit
1995 - 1997	HILLCREST SECONDARY TECHNICAL SCHOOL	General School Leaving Certificate

PROFESSIONAL EXPERIENCE

Chief Engineer - Transmission – 2020 to Present (2026) ZESCO LIMITED

Overall objective of Position: To provide technical support and identify development needs and establish action plans in the management of transmission assets.

Scope of work:

- Appraisal of technical staff for training and authorization
- Preparation of Budget Proposals for the region and initiation of strategic spare and tools for substations and transmission lines. Also ensure controls to the budget are adhered to
- Carry out continuous assessment of the transmission system to ensure it meets current and future capacity requirements
- Carry out designs, modifications, specifications including installation, Testing and commissioning of new and replacement equipment
- Ensure high level availability and reliability of Transmission Plant
- Lead Test Engineer in Factory Acceptance Tests at Original Equipment Manufacturers site for Transformers and Switchgear equipment

Projects:

- Site Manager for Switchgear Upgrade Project at Kafue Town 132kV GIS Substation and 132kV Coventry Substations (Project Cost USD 10,000,000.00)
- Retrofitting, testing and commissioning of 330kV Disconnectors at Kabwe Stepdown Substation
- Review and approval of test reports and commissioning protocols for the primary equipment of the Chisamba 100MW photovoltaic plant in Chisamba
- Installation, Testing and Commissioning of the 11kV Switchgear at Chiawa Substation

**Principal Engineer - Transmission – 2015 to 2020
ZESCO LIMITED**

Overall objective of Position: To provide technical support and identify development needs and establish action plans in the management of transmission assets.

Scope of work:

- Management of human and other resources within the region.
- Preparation of Budget Proposals for the region and initiation of strategic spare and tools for substations and transmission lines
- Carry out continuous assessment of the transmission system to ensure it meets current and future capacity requirements
- Carry out designs, modifications, specifications including installation and commissioning of new and replacement equipment
- Tracking Project milestones and deliverables
- Identifying and managing project dependencies and the critical path

- Continuous liaising with relevant project stakeholders
- Directing and managing the project development phases from beginning to end

Projects:

- Site Manager for Switchgear Upgrade Project at Leopards Hill 330kV and 88kV Substations (Project Cost USD 20,000,000.00)
- Site Manager for installation and commissioning of new Alstom SF6 330kV circuit breakers at Kariba North Bank Switchyard (Project Cost USD 2,000,000.00)
- Lead Engineer in factory acceptance tests for switchgear and transformers at manufacturers country factories (Japan, Sweden, Italy, Northern Ireland, India, China, South Africa, Egypt)

Senior Engineer -Transmission – 2011 to 2015 ZESCO LIMITED

Overall objective of Position: To provide technical support and identify development needs and establish action plans in the management of transmission assets.

Scope of work:

- Carry out on the job training for trainee staff in the department
- Carry out draft designs, installations and pre-commissioning of High voltage plant and equipment
- Coordinating all installation activities and verifying that all scheduled plant and equipment has being installed to specified standards
- Evaluation of tender bid documents for engineering, procurement and construction of Transmission Lines and Substations

Projects:

- Appointed as Substation and Lines Engineer on the new Kariba North Bank – Kafue West 330kV Transmission Line. Coordinating with the contractor to ensure that all designs and drawings, installations for the substation layout and equipment are done according to agreed terms in the technical specifications and other ZESCO instructions. *(Project cost is 61 million US dollars)*
- Supervision of installation and commissioning of all High voltage primary equipment for a new 330/132kV 150 MVA transformer bay at LeopardsHill Substation. *(Project cost is 4 million US dollars)*

- Supervision of installation and commissioning of all High voltage primary equipment for a new 330/132kV 125 MVA transformer bay at Lusaka West Substation.
- Supervision of installation and commissioning of all High voltage primary equipment for a new 88/33kV 10 MVA transformer bay at Chongwe Substation.
- Supervision of installation and commissioning of new Alstom SF6 330kV circuit breakers at Leopardshill substation.
- Installation and commissioning of 66kV Capacitor Banks at Chipata Substation
- Lead Engineer in factory acceptance tests for switchgear and transformers at manufacturers country factories (India, China, South Africa, Egypt)

Transmission Engineer – 2008 to 2011

Graduate Transmission Engineer – 2005 to 2008

Senior Authorised Person – 2010 (*Safety ZESCO Power Network up to 330kV*)

ZESCO LIMITED Lusaka Zambia

Overall Objective of Position: To provide technical support to operations and maintenance personnel who manage the transmission assets

Scope of work:

- Carry out timely operation and maintenance of transmission plant and equipment in order to minimize plant down time
- Monitor availability of spare parts and tools for transmission maintenance work, ensure proper utilization of equipment
- Carry out installations and commissioning of new and replacement of transmission equipment
- Ensure compliance to safety standards and statutory regulations and procedures and also ensure quality workmanship
- Prepare and submit monthly and other technical reports to senior management

Projects;

- Actively involved in the installation and commissioning of 330KV sulphur Hexafluoride LTB 420 E2 ABB circuit breakers under the power rehabilitation project at Kafue Gorge switchyard (*K10 Billion Kwacha project*)
- Overhauling of 330KV DLF air blast circuit breakers at Kariba North bank switchyard under power rehabilitation project

- Supervision of upgrading of transmission line insulation of Kariba North Bank – Leopards Hill 330kV Transmission line.
- Specifically responsible for a 330KV type AS tower erection on Mongu – Kalabo line (*K100 Million Kwacha project*)
- Supervision of installation and commissioning of 220/33kV 60 MVA transformer at Kafue Town substation
- Tasked with responsibility of installation and commissioning works of substation equipment at 66/11KV Nakabala substation
- Playing a lead role in precommissioning tests of 30MVA transformer at Mazabuka substation

ELECTRICAL ENGINEER – 2004 – 2005
African Explosives (Zambia) Limited Mufulira Zambia

Scope of work:

- Responsible for overseeing planned maintenance
- Preparing specifications of repair work for contractors

Internship – 2003
Kariba Minerals Limited – Mapatizya Mines Kalomo
Responsibilities:

Monitoring the desired parameters for the operation of the 60KVA diesel electrical generator, site visitation and check ups of the portable generator for jobsite power and motors for lapidary (cutting) machine

TRAINING/COMPUTER SKILLS

- Management Courses (*Maastricht School of Management, Netherlands*)
- Insurance of Power Transmission Risks – (*Insurance Institute of India, India*)
- Monitoring and Diagnostics- Dissolved Gas analysis in Oil (*GE Grid Solutions (UK) Ltd Northern Ireland*)
- Substation Engineering Design Course (*Midlands, South Africa*)
- Planning, Design, Construction and Maintenance of Transmission Overhead lines (*Midlands, South Africa*)
- Preparation of Technical Specifications for Power Transformer (*SMIT, Netherlands*)
- Electrical Insulation Testing and Analysis Training (Doble Products/Omicron) Lusaka Zambia
- Senior Authorized Person -Safety (*ZESCO power network up to 330kV System highest Voltage Level*)

HOBBIES AND SPECIAL INTERESTS

Reading, Networking, Travel

REFEREES

Douglas Katayi	Dr. Sam Sichilalu
Senior Manager – Transmission Projects	Lecturer - Electrical
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