

# Munga Semuja Mshana

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## SUMMARY

Detailed-oriented Electrical Engineer with over 10 years of construction and industrial electrical installation experience. Capable of designing and implementing new and upgraded installations, equipment and material needs consultation and procurement, with a strong emphasis on cost effectiveness, quality, and timely project delivery. Seeking to apply acquired knowledge, experience, and skills in industrial control, circuit management, and power distribution to assist any prominent, fortunate employer in increasing the productivity and quality of electrical projects and operations.

## SKILLS AND COMPETENCIES

- In-depth understanding of electronics and electrical systems.
- Advanced working knowledge of MS Office Suite, AutoCad, PLC, SCADA and general computer applications.
- Familiarity with design concepts, procedures and tools.
- Supervisory control and data acquisition.
- Cost estimates and work schedules.
- Good problem-solving and analytical skills.
- Contracts negotiations, executions and management of works.
- Leadership and resources management.

## EXPERIENCE

### Electrical Engineer

**JANUARY 2023 – PRESENT**

SHANVEC Consult (T) Ltd., Dar es Salaam, Tanzania

- Designing electrical power distribution, lighting, life safety systems, power quality, communications for residential and commercial buildings.
- Designing, configuring and deploying these SCADA system in a manufacturing or other industrial environment.
- Installation of network cabling system and its equipment in buildings(Voice and Data network cabling, Security Systems (CCTV, Security/Surveillance Cameras ), TV systems, Audio Visual and Video conferencing.
- Installation of Wide Area Network (WAN) to link head office with its branches or linking branch offices for both voice and data.(MPLS VPN installation, IPSec VPN installation, Point –to- point VPN installation.
- Installation of servers and network environments (Mail server, File server, FTP server, Web server, etc).

### Information System Technician

**MAY 2022 – DECEMBER 2022**

CGA Consult (T) Ltd., Dar es Salaam, Tanzania

- Installation of network cabling system and its equipment in buildings(Voice and Data network cabling, Security Systems (CCTV, Security/Surveillance Cameras ), TV systems, Audio Visual and Video conferencing.
- Installation of Wide Area Network (WAN) to link head office with its branches or linking branch offices for both voice and data.(MPLS VPN installation, IPSec VPN installation, Point –to- point VPN installation.
- Installation of servers and network environments (Mail server, File server, FTP server, Web server, etc).

### Industrial Sales Representative

**APRIL 2013 – MARCH 2022**

Eaton Industries (Canada) Company, Edmonton, AB – Canada

- Championed the preparations and reviews to quotations for power distribution products on industrial sector clients (large Oil & Gas clients) such as LV Motor Control Center (MCC), panel boards, MV switchgear and Assembly based on customer single line diagram (SLD), specification and data-sheets.
- Reviewed customer Purchase Orders and Bill of Materials and engineering design and drawings for ensured compliance with Eaton submitted quotation prior to order entry and compliance to applicable CSA, ANSI and IEEE standards.
- Prepared quotations for Industrial Low and Medium Voltage Assemblies such as MDS Switchgear, Switchboards, Drives, and Motor Control Centers used for large industrial distribution projects.

- Reviewed industrial standards such as CSA, NEMA and UL, and performed electrical studies such as Load-flow and Harmonic analysis to ensure supplied assemblies meet the CSA/IEEE standards.
- Configured custom-made products such as Custom Switchboards and Enclosed Controls, SCADA systems and determined improvements by analysing cost-benefit ratios of the equipment and supplies.
- Provided product education and advice to persuade clients' satisfaction in terms of quality, price and delivery.
- Identified and established new businesses while consistently liaised and kept close consultations and follow up to maintain existing clients.
- Reviewed customer mark-ups and specification for design changes before implementation
- Reporting progress to senior management in weekly basis.
- Reviewed and demonstrated the BOM (Bill of Materials) with clients, prepared budgetary quotation based on the supplied pre-feed information and coordinated ordered material for projects.
- Coordinated with customers for multi-phase projects by designing similar gear as requested and prepared offers based on the specifications and costs for projects.
- Attended and participated in industrial gatherings such as IEEE and Oil and Gas Shows, and performed site visits with customers for progress evaluations and suggestions for reviews or any improvements to existing gears.
- Supported authorized distributors for any technical issues or material request.

#### **Electrical Engineer Level 1**

**APRIL 2012 – APRIL 2013**

William Engineering Inc., Yellowknife, NT– Canada

Designed electrical power distribution, lighting, life safety systems, SCADA systems, power quality, communications and IT systems, for institutional, commercial, industrial and municipal projects. Undertake on site reviews of existing buildings electrical and new electrical systems construction according to Canadian Electrical code requirements. Furthermore maintaining relationships with clients and contractors assisting them on any technical inquiries.

#### **Information System Technician**

**SEPTEMBER 2011 – MARCH 2012**

Fladgate Exploration Consulting Corporation, Thunder Bay ON – Canada

Assisted with the development of scripts related to geological 3D modelling and database management, as well as the data management network and customized software applications that led to new geological data products and services for international clients.

#### **SPECIFIC PROJECTS/EXPERIENCES**

<b>Duration</b>	<b>Project Activities</b>	<b>Client</b>
2013-2022	Prepared quotes for medium/low voltage motor control centers (MCC), panel boards, MV switchgear, and assembly-based Single Line Diagram (SLD), specifications, and datasheets. Double-checked Purchase Orders and Bills of Material to make sure they matched the submitted quotes prior to placing orders. Examined engineering designs and drawings for compliance with Eaton, CSA, ANSI, and IEEE standards.	Fort Hills Fort McMurray, AB
2013-2022	Quotes for medium/low voltage motor control centers (MCCs), panel boards, MV switchgear, and assembly-based Single Line Diagram (SLD), specifications, and datasheets were prepared. Prior to placing an order, double-checked Purchase Orders and Bills of Material to make sure they matched the submitted quote. Examined engineering drawings and designs for Eaton, CSA, ANSI, and IEEE compliance.	Suncor Refinery Edmonton, AB

Duration	Project Activities	Client
2012-2022	Examined engineering drawings and designs to ensure that they met Eaton, CSA, ANSI, and IEEE standards. Prior to order entry, double-checked Purchase Orders and Bills of Material to make sure they matched the submitted quotation. Prepared quotation for power distribution products such as Medium/Low Voltage Motor Control Center (MCC), panel boards, MV switchgear and assembly-based Single Line Diagram (SLD), specifications and datasheets.	Enbridge Pipeline Edmonton, AB
2013-2022	Prepared quotations for medium/low voltage motor control centers (MCC), panel boards, MV switchgear, and assembly-based Single Line Diagram (SLD), specifications, and datasheets for power distribution products. Prior to order entry, I double-checked Purchase Orders and Bills of Material to make sure they matched the submitted quotation. Examined engineering drawings and designs to ensure that they met Eaton, CSA, ANSI, and IEEE standards.	Husky Lloydminster, AB
2015-2022	Prepare quotations for power distribution products such as LV MCC, panel boards, custom built variable speed drives, startup commissioning, and power system studies (Arc flash and Coordination studies) based on single line diagrams (SLD), specifications, and datasheets. Prior to order entry, review purchase orders and bills of material to confirm with submitted quotation. Examine engineering designs and drawings to ensure they meet Eaton, CSA, ANSI, and IEEE standards.	North Alberta Water Treatment Facilities Edmonton, AB
2012	Visual walkthrough of the Artic Sunwest Charters facilities' electrical systems and evaluation report.	PSAV Architects Ltd. Yellowknife, NT
2012	Design of electrical systems and lighting for the renovation of the Endoscopy and CSR areas.	Stanton Territorial Hospital, Yellowknife, NT
2012	Electrical design and final inspection of the new fire hall building's power and mechanical systems, as well as internal communications systems.	PSAV Architects Ltd Gjoa Haven, NU
2012	Design of electrical systems, lighting, and life safety systems Tender documents and commissioning.	Kugluktuk Water Treatment Plant Kugluktuk, NU
2012	Design of electrical systems, lighting, and life safety. Tender documents prepared.	Kugluktuk Visitor Centre Kugluktuk, NU

## EDUCATION

### B.Eng. Electrical Engineering

2006 - 2010

Lakehead University ([www.lakeheadu.ca](http://www.lakeheadu.ca)), Thunder Bay, ON, Canada

### Advanced Diploma in Electronics and Telecommunication Engineering 2003 – 2006

Dar es Salaam Institute of Technology ([www.dit.ac.tz](http://www.dit.ac.tz)), Dar es Salaam, Tanzania

## PROFESSIONAL MEMBERSHIP

Professional Member: Association of Professional Engineers and Geoscientists of Alberta (**APEGA**)

Member: Institute of Electrical and Electronics Engineering (**IEEE**) - Advancing Technology for Humanity

## REFEREES

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