

NKUTHALO MAKONCO

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Dedicated and experienced electrical technician with a proven track record in designing, installing, commissioning, and maintaining sophisticated electrical systems. Adept at providing technical support for automation systems and possessing strong troubleshooting skills in both electrical and mechanical domains. Good in a variety of programming languages and experienced in project management and CAD tools.

PROFESSIONAL EXPERIENCE

First Battery, East London, SA

2023 – Present

Electrical and Robot Technician

- Programmed PLCs and KUKA robots to automate processes and improve efficiency.
- Provide technical support for all Automation Systems.
- Material Requirements Planning (MRP).
- Performing breakdown repairs timeously and minimizing downtime on automation systems.
- Design and program HMI/SCADA applications.
- Agree plan, budget and manage timelines with the Manager for projects.

First Battery, East London, SA

2019 – 2023

Electrical Technician

- Machine improvements and machine faultfinding, network topologies, industrial PCs, PLC/HMI faultfinding and programming.
- Respond to work and breakdown requests and orders.
- Perform routine inspections on electrical equipment to ensure their reliability and adherence to safety standards.
- Annual shutdown maintenance function to machinery according to the scheduled programme.

First Battery, East London, SA

2016 – 2018

Electrician assistance

- Maintenance service to various machinery.
- Diagnosed cause of electrical malfunction and failure of operational equipment, performing preventative and corrective maintenance.
- Conduct routine and breakdown maintenance ensuring all equipment meets the required standards.
- Continual improvements and upgrading of electrical machine and equipment.
- Provide assistance to artisans.

EDUCATION

University of South Africa, East London, S.A

2018

Bachelor of Technology Electrical Engineering

Cape Peninsula University of Technology, Cape Town, S.A

2015

National Diploma Electrical Engineering

SKILLS

Design and installation, commissioning, maintenance, repairs, upgrades and retrofits electrical systems.

Programmable logic controller (PLC) [Siemens][Allen-Bradley][Schneider Electric].

SCADA/HMI development.

Proficiency with KUKA Robot systems.

Expertise in electrical control systems, instrumentation, and automation technologies.

Computer Aided Design (CAD) tools.

Programming languages C++, Python, Microsoft Visual Basic, SQL.

Proficient in Microsoft Office suite.