

Mohlomi Cliff Makhetha

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Address: 1549 Mphele Street, Dube Soweto, 1800
Date of Birth: June 12, 1994
Race: African
Gender: Male
Nationality: South African
Drivers: Code C1/10 (8 years of driving experience)
Relocation: Available for relocation
Website Link: Portfolio

I am a results-driven computer engineering graduate (BEng & Honors) with a foundation in electrical engineering, blending academic research in NLP-powered domain specific interpreters (Honors) and a Markdown based collaboration platform (BEng) with hands on expertise as an IoT system integrator, technical consultant, and field technician. Proficient in embedded systems, network configuration, and IoT-driven data analytics, I've executed projects spanning real-time monitoring, system installations, and performance optimization, refining skills in programming, system design, and technical problem-solving. Eager to leverage my technical acumen in an internship, I aim to deliver innovative, scalable engineering solutions within dynamic teams.

Experience

Electrical Tech & General Staff *Khethang trading store and butcher*

(Jan - Aug) 2016

Retail

Maintenance, Customer service, Cashier

Responsibilities

- Maintained butcher machinery, including troubleshooting faults, repairing refrigeration systems, and ensuring workplace/food safety compliance.
- Performed store lighting maintenance, electrical wiring, and installation of equipment.
- Delivered customer service by resolving inquiries, managing checkout processes, and ensuring a seamless shopping experience.
- Operated as a cashier: processed transactions, balanced registers, and maintained accurate financial records.

Skills

Single/3-phase machine maintenance, Customer service, POS systems, Cash handling

Skills

Conflict resolution, Workplace & food safety

Power Tool Repair Tech *UPAT S.A (Pty) Ltd*

(April – Sep) 2017

Retail Industrial Resale

Maintenance, Repair, Customer service

Responsibilities

- Inspected, troubleshot, quoted, and repaired power tools (e.g., DUSS PX 46, Milwaukee Kango 950), ensuring clear customer communication on repair processes, timelines, and costs.
- Provided customer service by addressing client inquiries, resolving complaints, and offering technical guidance on tool maintenance.
- Performed bookkeeping, lubrication, housekeeping, and administrative tasks while maintaining service transparency with clients.
- Followed safety protocols and optimized workflow efficiency to uphold client satisfaction and trust.

Skills

Electronics troubleshooting, Client communication, Service report writing

Skills

Machine lubrication, Workplace safety, Conflict resolution

Skills

Bearing maintenance, Stock taking, Customer relationship management

Universal Control (UC) Installation Tech *Master Power Technologies*

(April - July) 2018

Power Technology (Short term contract) Installation, Maintenance, Panel Wiring

Responsibilities

- Installed, configured, and maintained building monitoring systems (BMS), UPS battery monitoring (Battsure), Triple Changeover Systems (TCO), and generator fuel monitoring systems, ensuring seamless integration with client infrastructure.
- Programmed UC control panels for manual/automated operation and remote monitoring, including logic mapping for system optimization and fault mitigation.
- Wiring and assembly of UC boards/panels, adhering to technical schematics and compliance standards for clients like National Treasury, Standard Bank, and Vodacom Data Centers.
- Collaborated on cross-functional teams for Digital Park Africa's TCO installation and Vodacom Battsure deployment, ensuring on-time delivery and minimal downtime.
- Conducted post-installation testing, troubleshooting, and client training for system operation and maintenance protocols.

Skills Battsure Monitoring Systems, TCO Configuration, BMS Integration, UC Board Wiring

Skills Automated Control Systems, Remote Monitoring, Technical Schematics Interpretation

Skills PLC Programming (UC Systems), Network Configuration, Client Documentation

Skills Workplace Safety Compliance, Project Collaboration, Technical Reporting

Technical Consultant and Trainer *KemKlean Hygiene Solutions*

Sep 2018 – Nov 2019

Hygiene & Chemical Solutions Installation, Maintenance, Training, Client Support

Responsibilities

- Installed, repaired, and serviced hygiene equipment, including industrial dishwasher dosing pumps, electrical hand dryers, AccuPro dosing systems, and hand wash dispensers, ensuring optimal functionality and compliance with safety standards.
- Provided technical support and maintenance services to high-profile retail and food service clients such as Nando's, Chicken Licken, Ster Kinekor, Pick n' Pay, Game, and Delthorn.
- Conducted staff training on chemical application, dilution, and safety protocols, ensuring proper usage and adherence to hygiene standards.
- Managed administration tasks, including call reports, service planning, and documentation, to maintain accurate records and streamline operations.
- Traveled extensively across Limpopo, Free-State, Lesotho, Northern Cape, and other provinces to deliver on-site services, ensuring timely and efficient client support.

Skills Hygiene Equipment Installation & Repair, Dosing Systems (AccuPro), Electrical Hand Dryers

Skills Client Training & Support, Chemical Application & Safety Protocols, Service Documentation

Skills Call Reporting, Service Planning, Cross-Provincial Travel Coordination

Skills Retail & Food Service Industry Expertise, Workplace Safety Compliance, Technical Troubleshooting

Service Technician *Geochem Speciality Chemicals*

Aug 2022 – April 2023

Hygiene & Chemical Solutions Installation, Maintenance, Client Support

Responsibilities

- Installed, repaired, and serviced hygiene equipment, including industrial dishwasher dosing pumps, liquid detergent hand pumps, Seko slide dosing systems, and hand wash dispensers, ensuring optimal performance and compliance with safety standards.
- Provided technical support and maintenance services to retail and food service clients such as Pedro's, Steers, and catering companies like Feedem and Tsebo Catering.
- Conducted weekly deliveries of chemicals and equipment to outlying areas, including Port Owen Marina and George, ensuring timely and reliable service.
- Installed and maintained laundry pump systems for dispensing washing detergents, ensuring proper functionality and client satisfaction.
- Performed routine inspections, troubleshooting, and repairs to minimize downtime and enhance equipment longevity.

Skills Hygiene Equipment Installation & Repair, Seko Dosing Systems, Laundry Pump Systems

- Skills** Client Support & Maintenance, Chemical Delivery Coordination, Technical Troubleshooting
- Skills** Retail & Catering Industry Expertise, Workplace Safety Compliance, Service Documentation
- Skills** Cross-Regional Travel Coordination, Equipment Inspection & Optimization

Field Technician (Intern) *SmartView Technology*

(May – Nov) 2023

IoT Systems Integration & Development Installation, Support, Testing, Optimization

Responsibilities

- Conducted site inspections and took full responsibility for IoT device installations and system integration, ensuring seamless deployment and functionality.
- Provided technical support and troubleshooting for IoT systems, addressing customer needs and resolving issues during device deployment.
- Assisted in the development of the SmartView web and mobile application, contributing to features like IoT monitoring, data analytics, and user interaction.
- Conducted code testing using Cypress to ensure application reliability and performance.
- Collaborated with the CEO and engineering team to enhance IoT monitoring system capabilities, including HVAC system testing and performance optimization.
- Prepared detailed reports on IoT device status, efficiency, and system performance for stakeholders.
- Analyzed system data to ensure accuracy and reliability in real-time monitoring, maintaining devices on the Sigfox server.
- Provided feedback to improve mobile and web user interfaces, enhancing user experience and system usability.
- Created tutorial YouTube videos to demonstrate IoT system functionalities and workflows, including two videos:
 - Video Link:** Trend Analysis
 - Video Link:** Smart-View Billing Management
- Trained the team on using Flexclip for video creation and editing, improving internal content production and communication.

Skills IoT Device Installation & Integration, System Testing & Optimization, Cypress Code Testing

Skills Technical Support & Troubleshooting, HVAC System Monitoring, Data Analytics

Skills Sigfox Server Management, Real-Time Monitoring, Performance Reporting

Skills Video Creation & Editing (Flexclip), Tutorial Development, Team Training

Education

Technical Matric *Central Johannesburg College*

2012-2014

Electrical Infrastructure Construction NC(V) Level 2 - 4 Average of 62.1%

Electrical, Electronics, & PLC Programming Studies

National N Diploma *Central Johannesburg College*

(Jan-Dec) 2015

Electrical Engineering Studies NATED N4 - 6 Average of 62.3%

Electrical & Industrial Electronics Studies

Practical Training *Fanshawe College*

(Sep-Dec) 2016

Renewable Energies Technician Level 1 Average of 89.4%

Electrical, Mechanical & Industrial Electronics Studies of Renewable System

Diploma *Cape Peninsula University of Technology*

2020-2021

Engineering Technology in Computer Engineering Average of 78.6%

Electrical, Electronics, Embedded System, Process Control, Programming & Network Studies

Engineering Technology in Computer Engineering Average of 75.05%

Micro Controller, Computer Architecture, Programming, Database, Graphics & Network Systems Studies

Engineering Technology in Computer Engineering Average of 79% (Cum Laude)

System Modelling, Project Management, Network Security, Artificial Intelligence & Researching Studies

SkillsExpert Proficient Competent Basic**Spoken Language:**English Sesotho Zulu Xhosa**Coding Language:**Java HTML CSS JavaScript Python C
SQL C++ Math Lab PHP React Native
NoSQL Simulink**Technical:**WebGL Arduino ESP32 Workplace safety
Electrical wiring Schematic interpretation
Electronic Soldering Proteus and MultiSim simulators
LATEX Microsoft 360 Office suite
Mathematics & Boolean algebra
Penal beating spray painting Researching
Report writing presentation Mathematical modeling
Classical Physics Fault finding
Setting up servers printers TIA Siemens PLC
Quantum Physics Cisco router & switch configuration
STM23**Soft Skills:**Critical Thinking Problem Solving Public Speaking
Digital Literacy Intercultural Fluency Teamwork
Work Ethic Leadership**References****Central Johannesburg College****Mr. Leshaba S.A.***Electronics Lecture***Contact:** +27 73 672 4849**Email:** leshabaa@cjc.edu.za**Geochem Speciality Chemicals****Travis Mason***Cape Town Branch Manager***Contact:** +27 84 776 6123*Software Development Lecture***Cape Peninsula Uni of Tech****Mr. Adonis M****Contact:** +27 72 123 9050**Email:** adonismt@cput.ac.za**SmartView Technology****Keenan George***Founder & CEO***Contact:** +27 83 585 1927**Email:** kgeorge@smartviewtechnology.co.za