

Gomolemo Ntlhane

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Professional Summary

Versatile **Electrical and Software Engineer** with 5+ years of hands-on experience in electrical engineering, software development, and project management. Skilled in both hardware and software domains, with a proven track record in PCB design, circuit analysis, automation, and full-stack web development. Known for delivering efficient, innovative solutions that meet project goals and enhance system reliability. Proficient in Python, ReactJS, and control systems, with a strong foundation in digital electronics and process optimization.

Key Skills

- **Technical Engineering Skills:**
Circuit Design, PCB Design, Digital Systems, Fault Diagnosis, Testing, Electrical Systems Installation
 - **Software Development:**
Python, JavaScript, HTML/CSS, ReactJS, NodeJS, C++, API Integration, SQL, Database Management
 - **Design/UI:**
Photoshop, Illustrator, Figma, UI/UX Design, Web Design
 - **Project Management:**
Budgeting, Scheduling, Contractor Coordination, Compliance, Safety Standards
 - **Soft Skills:**
Communication, Critical Thinking, Time Management, Collaboration, Report Writing
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Professional Experience

Project Manager & Electrical Contractor

Linkwell.co.za | 2023 – Present

- Managed multiple commercial and residential projects, overseeing all aspects of electrical system design and installation to meet regulatory and safety standards.

- Collaborated closely with architects and engineers to align project deliverables, schedules, and client expectations, ensuring seamless project progression.
- Conducted safety audits and quality inspections to maintain compliance with industry standards, achieving a 100% compliance rate.

Digital Marketing Assistant

Meltac Pty Ltd, Johannesburg | 2020 – 2023

- Developed and managed the company's eCommerce website using WordPress, leading to a 30% increase in online sales.
- Conducted market research to refine customer acquisition strategies, enhancing engagement and customer satisfaction by 25%.
- Utilized communication skills to resolve customer inquiries and complaints, providing efficient solutions and contributing to a 15% improvement in customer retention.

WIL P2 Electronics Engineering Intern

Resolution Circle Pty Ltd, Johannesburg | Jan 2019 – Jun 2019

- Diagnosed and reworked digital systems to optimize functionality, reducing system failures by 20%.
- Developed test plans and conducted quality inspections in line with IPC-A-610 standards to ensure high product reliability and performance.
- Improved production efficiency by identifying areas for automation and implementing PCB assembly techniques.

WIL P1 Workshop-Based Intern

Resolution Circle Pty Ltd, Johannesburg | Jul 2018 – Dec 2018

- Participated in workshops on Electronics, Automation, and Electrical Engineering, applying knowledge to hands-on engineering projects.
- Programmed and configured PLCs using Ladder Diagram and Structured Text languages, developing control systems to streamline operations.
- Gained experience with instrumentation tools like oscilloscopes and function generators, contributing to accurate measurements and testing.

Education

Software Engineering Program (In Progress)

ALX Africa | 2024 – Present

Focus: Full-stack development, Python, JavaScript, API integration, and database management

NDIP in Electrical Engineering (Electronics)

University of Johannesburg | 2015 – 2020

Relevant Coursework: Network Systems, Control Systems, Electrical Machines, Digital Systems

Matric

Covenant College | 2014

Certifications & Licenses

- **Front-End Development** – HTML (Great Learning) | Dec 2022
Fundamentals of HTML, CSS, JavaScript, and DOM manipulation.
 - **Driver's License** – Code 10 | Valid through 2027
 - **Level 1 First Aid Certification**
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Selected Projects

Komba - Your Smart South African Taxi Navigator

- Developed a mobile application to simplify navigation through South Africa's minibus taxi system, incorporating real-time traffic data, route optimisation, and local points of interest.
- Collaborated with backend developers to integrate AWS-hosted services, resulting in a robust and scalable solution.

Taxi App

- Focused on user authentication, route search, real-time traffic data, and route optimisation, utilising machine learning algorithms to refine route suggestions based on government and crowdsourced data.
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References

Mr. NJ Nkambule – Project Lead, Linkwell.co.za
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Jan Skosana – Manager, Meltac Pty Ltd
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