

MABONA MAXWELL SIHLONGONYANE

BUSINESS INFORMATION TECHNOLOGY GRADUATE

Location: Mkhuzweni, Manzini, Eswatini

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Portfolio Website: mabona.firstsuninvestment.com

SUMMERY

A powerful IT Specialist with expertise in embedded systems, network engineering, software development, and AI application development. Bridges infrastructure knowledge with AI/ML implementation to build intelligent systems from concept to deployment. Ready to develop both traditional and AI-powered IT products with properly configured network infrastructure.

TECHNICAL SKILLS

- Networking and Infrastructure:** LAN/WAN, Routing/Switching, Firewall Configurations, VPN Implementation, Windows/Linux Server Administration, Active Directory Management, Virtualization, DNS/DHCP Services
- Embedded Systems and Robotics:** Arduino (C++), LED Circuits, Robotics Prototyping, Sensor Integration, Servo Motors
- Software, Web and Mobile App Development:** C++, Java, C#, JavaScript, Dart, Python, React.js, PHP, Node.js, Laravel
- Database Management:** MySQL, Microsoft SQL Server, PostgreSQL, MongoDB
- Project Management and Collaboration:** Agile/Scrum Methodologies, (Postman API Testing), Git/Github (version control), Figma(UX/UI design), Jira

6. **Cloud, AI, Tools and Software:** Microsoft Azure, TensorFlow, Scikit-learn, NLP, Jira, Git/GitHub, Firebase, WordPress, PHPMailer, cPanel, Apache, Power BI, Advanced Microsoft Excel, Tableau, KoboToolbox, Cisco IOS, VMware, Arduino IDE

SOFT SKILLS

1. Innovation Implementation
 2. Human Centered Technical Design
 3. Collaborative Solution Facilitation
 4. Adapting to work environment changes easily
 5. Effective communicator
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EXPERIENCE

Ministry of Health – HMIS Unit (01 February 2026 - Present)

Network Engineer Technician (Volunteer)

1. Set up cabling (copper and fiber)
2. Configured network services (DHCP, DNS, VLANS)
3. Linux Server set up and administration
4. Installed Access Points and adopted them on the network
5. Daily Network Troubleshooting and Computer Support

Ministry of Health – HMIS Unit - Contract (01 November 2025 – 31 January 2026)

Computer Configurations, Asset Tagging and Deployment Technician

1. Configured Desktop Computers making sure all necessary applications are installed for deployment in facilities across the country.

2. Tagging every computer for tracking purposes and ensuring they are added to Asset Management Systems (AMS).

InnoTech International Academy – Part Time (18 August 2025 – Present)

Coding and Robotics Teacher

1. Introduced students to computer animations using Scratch Software Tool.
2. Built with student's auto opening sensor dustbins and electronic circuits for lights.
3. Used Arduino kits for robotics hardware and PictoBlox IDE, Arduino C++ for programming robots.

Ministry of Health – HMIS Unit (21 April 2025 – July 2025)

IT Intern

1. Engineered an internal Help Desk Ticket web application from concept to deployment using React.js, PHP, and SQL reducing manual tracking and improving issue resolution workflow for the team.
2. Deployed and configured key network infrastructure (switches, routers, access points) across multiple facilities, enhancing network reliability and coverage.
3. Provided on-site technical support, troubleshooting computer and printer issues.

First Sun Investment (Pty) Ltd (6 December 2024 – 31 January 2025)

Consultant Web Developer

1. Designed and delivered a custom online ordering system for First Sun an agribusiness, utilizing Ajax, PHP, and SQL to digitize their sales process and improve customer accessibility.
 2. I tested and trained employees how to work on the dashboard where they manage their orders. I also configured them custom webmail addresses.
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EDUCATION

1. Limkokwing University of Creative Technology (LUCT) – Mbabane Campus

Associate Degree in Business Information Technology

Graduated: 12 November 2025

Coursework: Software and Network Engineering, Database Systems, Data Analysis, AI Development and Web Technologies

2. Cisco Networking Academy

Networking Basics Certificate

3. Mkhuzweni High School

EGCSE/IGCSE Certificate

Passing Year: 2021

REFERENCES

Mr. Mthunzi Dlamini

Object Oriented Programming Lecturer (LUCT)

Cell: +268 78117822

Mr. Siboniso Sibandze

Incident Response Officer (Eswatini Communications Commission)

Cell: +268 76547494

Mr. Khayaletu Dlamini

Network Engineer (HMIS Unit)

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