

SIHLE SIBUSISO NTULI

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<https://ssntuli.github.io/SIHLENTULI/sihle.html>

SUMMARY

An open-minded Electronics Engineer who is intrigued by new challenges that takes him out of his comfort zone. Experienced in project management, contract management and development of innovative problem solving solutions.

WORK EXPERIENCE

Electronic Engineer , Transnet Freight Rail

Aug 2023 - Present

- Implementation and deployment of robotic process automation solutions using Microsoft Power Platform(PowerApps, Power Automate and SharePoint).
- System integration and automation using python and Postgress SQL.
- Research and development of image processing and deep learning solutions using python and TensorFlow

Network Operating Centre Manager (Seconded), Transnet Freight Rail

Jul 2022 - Jul 2023

- Lead a team of technicians to ensure effective and efficient monitoring of telecommunication network elements nationally.
- Facilitate internal and external interface stakeholder engagement.
- Perform telecommunication network elements' system performance analysis to assist with business decisions using SAP and Microsoft Excel pivot tables.
- Manage telecommunication department's fault management process nationally.

Telecoms Engineer, Transnet Freight Rail

Feb 2021 - Jun 2022

- Project management from conceptual to close out phase.
- Contract management of Telecoms COPEX projects from contractor to close out phase while ensuring compliance with the applicable environmental and safety regulations.
- Co-ordinate major breakdowns to reduce the network outage duration, hence reducing business impact.
- Develop maintenance plan for telecommunications assets, inline with the OEM set standard, to prolong the asset life cycle.

Engineer In Training, Transnet Freight Rail

May 2018 - Jan 2021

- Understand rail infrastructure engineering departments' functions and their integration.
 - Conducted root cause analysis using lean six sigma methodology.
 - Technical manager on Telecoms department COPEX projects.
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EDUCATION

University of KwaZulu Natal

Jan 2013 - Dec 2017

- Bachelor of Science In Engineering(Electronics Engineering)

Linpark High School

Jan 2008 - Dec 2012

- Subjects: English (first language), IsiZulu (second language), Maths, Mechanical Technology, Physical Science,Engineering and Graphic Design, Life Orientation

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Protec Academy

Jan 2011 - Dec 2012

- Subjects: Mathematics, Physical Science, English and World of Work

ADDITIONAL INFORMATION

Technical Skills:

- C++
- C
- Python
- HTML
- CSS
- Node JS
- Express
- EJS
- JavaScript
- Power Apps
- Power Automate
- Power BI
- Postgress SQL
- Tensorflow
- OpenCV
- Deep Learning
- Computer Vision

Languages:

- IsiZulu
- English

Awards/Activities:

- Received "F.A Botha Shield" award for best technical student.
- Awarded "1st place in SAPPAS AAA Hackathon" for solving real life scenarios using Microsoft Power Platform
- Award "In recognition of positive spirit created and channeled throughout TFR by participating in Jerusalema Spring Dance Challenge" - Winner
- Research paper (*Train Vehicle Number Recognition and Consist Counting Using Deep Learning*) accepted for the International Heavy Haul Association 2025.