

# FUNDISWA COMFORT SITHOLE

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🚩 south african 🗣 single 🆔 0822575651 👤 male

## 🌐 LANGUAGES

### English

First Additional Language grade 12

### Swati

Home Language

### xitsonga

home language

### zulu

friends and relatives

## 🎓 EDUCATION

### Computer Systems Engineering, Tshwane University of Technology

January 2021 – June 2024 | Pretoria, South Africa  
Education

Diploma in Computer Systems Engineering  
Tshwane University of Technology, Pretoria,  
Expected Graduation: June 2025

#### Key Skills:

Proficient in C++ and Python with a focus on application development and system programming.

Intermediate level proficiency in C and Java, including experience in software development and debugging.

Familiarity with web development technologies such as HTML and CSS, with hands-on experience in building applications using Django framework.

Experienced in Linux environment, particularly Ubuntu, and proficient in utilizing Python 3 for robotics applications, leveraging ROS2 framework for development and experimentation.

Projects:

## 📜 CERTIFICATES

- What is Data Science? 🔗
- Introduction to Computers and Operating Systems and Security 🔗
- Foundations of Cybersecurity 🔗
- Introduction to DevOps 🔗

## 📖 COURSES

### Computer Systems Engineering, Tshwane University of Technology

January 2021 – June 2025 | Pretoria, S.A

## 🔑 INTERESTS

**Technology Exploration** (Intrigued by emerging technologies and eager to explore new programming languages, frameworks, and tools to stay updated with industry trends),

**Problem-Solving** (Enjoy tackling complex challenges and finding creative solutions through logical analysis and algorithmic thinking, leveraging programming skills),

**Continuous Learning** (Committed to lifelong learning and personal development, with a passion for acquiring new skills)

Developed a real-time collaborative project system using Python, Django, HTML, and CSS, enhancing team productivity and communication. Implemented various algorithms and data structures in C++ and Python, demonstrating problem-solving skills and understanding of software engineering principles. Utilized ROS2 framework in Ubuntu environment to develop robotic applications, including path planning and sensor integration for autonomous navigation.

#### Coursework Highlights:

Data Structures and Algorithms  
Operating Systems  
Computer Networks  
Software Engineering Principles  
Embedded Systems Design  
Additional Information:

Actively involved in extracurricular activities such as hackathons and coding competitions, honing problem-solving and teamwork skills. Continuously expanding knowledge through self-learning and online resources, staying updated with the latest developments in computer science and engineering fields.

## SKILLS

### Programming languages

Proficient in C++,C,PLC ,Assembler and Python,  
with experience in application development

### Web Development

Familiar with HTML and CSS, capable of creating  
and styling web pages

### Operating Systems

Proficient in Linux environment, particularly  
Ubuntu,Experience in developing applications for  
Linux using Python 3 for Robotics

### Robotics and Embedded Systems

Experience in utilizing ROS2 framework for  
robotics development in Ubuntu environment ,  
also atmel studio 7 atmega328p microcontroller  
programming using C

### Problem-Solving and Software Engineering

Strong problem-solving skills, demonstrated  
through coursework projects ,Understanding of  
software engineering principles

### Communication and Collaboration

Effective communication skills, proven through  
group projects and teamwork activities.  
Collaborative mindset, able to work effectively in  
interdisciplinary teams to achieve project goals.

### Continuous Learning and Adaptability

Eagerness to learn and adapt to new  
technologies and tools

## REFERENCES

**prof pius**, *department HOD*,  
Tshwane University of Technology  
0829750484

**Ely OndoEkogha**, *lecture*,  
Tshwane University of Technology  
OndoEkoghaE@tut.ac.za, 0612558713



**Tshwane University  
of Technology**

*We empower people*

**Faculty of Information and Communication Technology**

Department of Computer Systems

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To whom it may concern.

**RE: EXPERIENTIAL TRAINING FOR DIPLOMA**

I hereby wish to verify that FC Sithole (Student nr. 220254046) is a student at Tshwane University of Technology for the course: N. Dip. Engineering: Computer Systems.

He will be completing all his theoretical subjects for the diploma this semester **if he successfully passes his final subject.**

Experience in the workplace is an invaluable part of the training and would be to great benefit for later employment, as well as opportunities in the Computer Systems Engineering field. Thus, he has to complete 2 X 24 weeks of training in the workplace as part of the subjects Experiential Training 1 and 2 in order to complete the curriculum of the qualification.

The industry exposure is career oriented and is aimed at integrating academic training with practical skills as demanded by the industry in the following areas:

- System development and maintenance
- Database development and implementation
- Network Systems and support
- System Analysis and design
- Project Management
- System Testing
- Web Application Development
- Mobile Application Development
- Electronics
- Robotics
- Microprocessor Design and Implementation

My best wish accompanies this letter.

Regards

Mr. M.N. Muwanguzi

Lecturer: Computer Systems Engineering (Information and Communication Technology)

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