



## PERSONAL

**Name:**  
Charles Ngala

**Address:**  
2363 Block L  
Soshanguve  
Pretoria, 0152

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**Cellphone:**  
+27 793 030451

## SKILLS

### Personal Skills:

Problem-Solving ★★★★★  
Attention to Detail ★★★★★  
Communication Skills ★★★★★  
Leadership ★★★★★  
Teaching Capabilities ★★★★★  
Adaptability ★★★★★  
Working Under Pressure. ★★★★★

### Programming:

- Python
- C
- C++
- Flask
- HTML
- CSS
- JavaScript
- C#
- Django Python
- Assembler
- Ladder Logic
- Cisco networking.

## REFERENCES

Dr. Nyoni SR (Former Ndi3 Principal)  
@082 313 7078

Prof. Owolawi Pius (TUT HOD (Dep:CSE))  
@082 975 0484

Mr. Mohola F (Former Puncho Officer)  
@082 393 3979

# CHARLES NGALA

I am a highly motivated and technically proficient with a National Diploma in Information Technology (Intelligent Industrial Systems). My academic excellence and practical experience have equipped me with a strong foundation in programming and hardware expertise. I have successfully completed innovative projects, such as smart home automation, biogas generation, solar power backup, water monitoring systems, and humanoid robot development.



## WORK EXPERIENCE

### June 2023 – now

#### TUT 4IR Lab:

- Hardware and Programming:  
In my role at TUT 4IR lab, I am responsible for conceiving, designing, and implementing various hardware projects, ranging from automation systems to innovative technological solutions. I also play a pivotal role in programming these projects, ensuring their seamless integration and functionality. My work at the lab allows me to combine my hardware expertise with programming skills to bring cutting-edge, real-world applications to life.

#### Projects:

Smart Home, Biogas Energy Generator, Water monitoring system, Humanoid Robot, Solar Power Generator,

### November 2022 – April 2023

#### Softmeet Company:

- Software Engineer

### January 2022 - October 2022

#### Ndindindi P School:

- Clerk Assistant:
  - Admin assistant, register compiler, paper work, tests typing, printing service, virtual meeting assistant, and late learners' attendance, and work as Principal's PA



## EDUCATION QUALIFICATIONS

### 2017 – 2021

**Tshwane University of Technology**  
National Diploma Information Technology  
(Intelligent Industrial Systems)

### 2016

**Samora Machel High School**  
Grade 12 : National Senior Certificate  
(NSC)