

# CONTACT

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- 121 Main Road, Claremont
- Bokang Lepolesa

# **EDUCATION**

2022 - Present
UNIVERSITY OF CAPE TOWN

- BSc Eng in Mechatronics
- CGPA: above 80%

2020 - 2021 NATIONAL UNIVERSITY OF LESOTHO

- General Bachelor of Science
- GPA: 4.7 / 5.0

## **SKILLS**

- Coding proficiency in Python,
   C/C++, Java, and MATLAB.
- Proficiency in Machine Learning
- Proficiency in Electronic Design
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

# **BOKANG LEPOLESA**

# MECHATRONICS ENGINEERING

#### **PROFILE**

I am an aspiring mechatronics engineer passionate about developing sustainable solutions affecting the African societies and the globe. My interests lie in embedded software and hardware design for control systems of small-scale and large-scale processes. I am keen to explore the use of Artificial Intelligence in driving the development of smarter and more sustainable solutions for engineering problems, particularly control systems.

#### WORK EXPERIENCE

Fire Detection, UCT

AUG 2025 - PRESENT

**Team Lead** 

- Design and implement a fire detection system utilizing thermal cameras
- Lead and manage a team of students working on the project
- Artificial Intelligence for Power, UCT Internship

JUN 2025 - JULY 2025

- Design and implement a low-cost PMU for measuring electrical parameters for potential use in Artificial Intelligence
- Collaborate with a team of interns to accomplish the task

#### **PROJECTS**

University of Cape Town
 Detection of Predators in Penguin Colonies

2025

2024

- Design and implement a system that detects and identifies predators in penguin colonies
- University of Cape Town
   Path Optimization for Miniature robot

• Developed software for a miniature vehicle robot to navigate a maze.

## **REFERENCES**

**Dr Sampath Jayalath** 

Senior Lecturer, UCT

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