

Longa Maimbo

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EDUCATION

University of Cape Town 2021 - Present

Program: BSc Eng. In Mechatronics | Specialisation: Mechatronics Specialisation

Cape Peninsula University of Technology December 2021 – December 2021

Certificate of Training in: Welding, Turning; CNC Programming, Pneumatics, Basic Hand Skills and Robotics

Saint Ignatius College/Springfields High School 2015 - 2020

- Consistently ranked in the academic top ten in high school.
- Actively engaged in leadership and provided tutoring as the academic prefect.
- Graduated with the highest academic average in my class.

SKILLS

Through various projects and my coursework, I have gained practical experience and skills in various aspects of engineering including:

- Programming proficiency in Java, Python and C for microcontrollers.
- Frontend Development with HTML, CSS and JavaScript.
- Effectiveness in conveying information by means of report writing.
- Proficiency in KiCad PCB design.
- SolidWorks 3D design.
- Proficiency in various aspects of MATLAB.
- Soldering.
- Communication, problem solving.
- Microsoft Office Suite.

EXPERIENCE

University Of Cape Town – Intern June 2023 - August 2023

During my vacation work at the University of Cape Town's Machines Laboratory, I undertook several tasks including examining soft starter circuits and a doubly fed induction panel with the aim to develop accurate schematics of their circuit to allow them to be tested with all relevant information accessible.

- Gained an in-depth understanding of soft starter circuits.
- Developed proficiency with EPLAN software.
- Analysed and proposed design fixes for a doubly fed induction panel.

Ottobock Zambia – Intern

December 2020 – December 2020

During my work at the Ottobock branch in Lusaka, Zambia, I aided with the physical modelling and assembly of prosthetic limbs and worked with patients in physical therapy sessions.

- Made plaster cast of remaining limbs in preparation for a test socket.
- Aided in molding and cutting of plastic test sockets.
- Assembled and adjusted prosthetic limbs to fit patient.
- Aided patients in physical therapy sessions to allow them to learn to effectively use their prosthetic limb.