

# Thatohatsi Motlhamme

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## OVERVIEW

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Motivated and detail-oriented individual with practical experience in electrical and mechanical engineering. Skilled in programming, circuit design, control systems, and technical problem-solving.

## EDUCATION

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**UNIVERSITY OF CAPE TOWN** 2021-Present

*Programme: BSc Eng. in Mechatronics | Specialisation: Mechatronics*

- Dean's List Academic Achievement Award (2021-2023)
- Kopano 2021 Top Achiever award within the Engineering and Built Environment Faculty
- Woolsack Residence 2023 Top Achiever award within the Engineering and Built Environment Faculty
- Peralex Electronics Prize for achieving the top position in EEE3096S – Embedded Systems II in 2023

**ROOSEVELT HIGH SCHOOL** 2016–2020

- Academic Top Ten (2015-2020)
- Academic Full Colours (2019, 2020)
- Second highest academic average at graduation
- Actively contributed as a member of the RHS school committee in 2019
- Engaged in leadership as part of the Representative Council of Learners in 2020

## PROFESSIONAL EXPERIENCE

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**MIZANA ENGINEERING AND SERVICES (PTY) LTD** June 2022 – August 2022

*Vacation Work*

Tasks and Skills Developed:

- Conducted diagnostics and repairs on induction motors, including detailed component replacement and performance verification
- Assembled and tested water pumps, and introduced a new in-house testing method for operational integrity
- Developed advanced troubleshooting and problem-solving techniques

**UNIVERSITY OF CAPE TOWN** June 2023 – July 2023

*Electrical Engineer Intern | Vacation Work*

Tasks and Skills Developed:

- Analysed and modified a star-delta starter panel to reduce starting current of induction motors
- Enhanced efficiency and corrected errors in control panel schematics using EPLAN software
- Improved problem-solving and troubleshooting skills in electrical systems

## TECHNICAL SKILLS AND COMPETENCIES

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**Programming:** Python, C, Java, HTML, CSS, JavaScript

**Design and Drafting:**

- Circuit design and analysis using KiCAD, Altium Designer, LTSpice, EPLAN, EasyEDA
- 3D mechanical design using SolidWorks.