

## Contact

jambotinashe@gmail.com

[www.linkedin.com/in/tinashejambo](https://www.linkedin.com/in/tinashejambo)  
(LinkedIn)

## Top Skills

optimisation

Business Strategy

Solidworks

## Certifications

Introduction To Swift Programming

Machine Learning

Front-End Web UI Frameworks and Tools

Advanced Learning Algorithms

Multi-Objective optimisation problems and algorithms

## Honors-Awards

DEAN'S MERIT LIST

Peoples Choice

Best Overal

# Tinashe Jambo

Mechanical Engineer | Data Analyst | AI | LLMs

City of Cape Town, Western Cape, South Africa

## Summary

I am a results-oriented, creative and versatile Engineer with multi-disciplinary problem-solving techniques and methodology. I have experience in engineering design and software development. I am currently interested in Computational mechanics, Machine Learning, Data Analytics as well as Renewable Energy and Sustainability.

## Experience

University of Cape Town

5 years 1 month

Teaching Assistant

July 2023 - Present (1 year 7 months)

Academic Tutor

January 2020 - Present (5 years 1 month)

Cape Town, Western Cape, South Africa

MSc Eng Candidate

February 2020 - July 2022 (2 years 6 months)

Cape Town, Western Cape, South Africa

Madam Waste

Business Development Officer

September 2022 - November 2023 (1 year 3 months)

Eskom Power Plant Engineering Institute

Postgraduate Researcher

February 2020 - July 2022 (2 years 6 months)

Cape Town Area, South Africa

Mechanics and Materials

Topic: Influence of post-weld heat treatment (PWHT) on the tensile behavior of P91 weldments

P91 creep resisting steel is being increasingly used for elevated temperature service in Nuclea and Fossil Fuel Power Plants. The research focuses on investigating the influence of PWHT on the tensile behavior of weldments and recommend a standard PWHT process. The project also seeks to evaluate the test technique to optimize the acquisition and interpretation of tensile data. The test technique involves the use of Digital Image Correlation technology and electric resistance heating and tensile testing of specimens in a Gleeble 3800 thermomechanical machine.

**Mastercard Foundation Scholars Program at the University of Cape Town**  
**Peer Mentor**  
March 2021 - October 2021 (8 months)  
Southern Suburbs, WC, South Africa

Helping undergraduate students plan for their academics and careers. The goal of this mentorship programme is to bring together students registered for full-time study at UCT, in any discipline, to establish a network of peer support and inspire a culture of interdisciplinary collaboration among Scholars of The Mastercard Foundation at UCT, i.e. mentees.

The mentorship programme seeks to achieve the following objectives :

- Advise mentees, drawing from lessons learnt during university studies
- Create platforms for engagement to develop critical thinking and competencies for global citizenship among the mentees
  - Orient mentees with the University-space
  - Stimulate an interest in academic research among mentees
  - Support mentees through their personal developmental journey

**Gravitron Pty Ltd**  
**Intern**  
December 2019 - December 2019 (1 month)  
Cape Town Area, South Africa

Vacwork, My Role was to design a thermoelectric generator with Peltier modules to harness heat energy to generate electricity to power a control system. Promising results were achieved through research and experiments which show great potential in the use of Peltier modules to harness heat energy to generate electricity.

**University Of Cape Town Future Water Institute**

**Intern**

June 2019 - September 2019 (4 months)

Cape Town Area, South Africa

Vacwork Internship at University Of Cape Town Future Water Institute. My role was design and testing of a fertilizer producing urinal for an ongoing research project by Dr Dyllon Randall.

**MICROBOTS**

**Founder**

February 2014 - January 2019 (5 years)

Zimbabwe

MICROBOTS is Technology Design and Innovation Startup. Where engineers & innovators design and develop IoT (Internet of things) technology solutions and Enterprise Software Solutions. MICROBOTS is under DIVSOL (Pvt) Ltd.

**Metal Components Manufacturers**

**Mechanical Engineering Intern**

June 2016 - October 2018 (2 years 5 months)

Harare, Zimbabwe

- Engineering Design : Generating Engineering Drawings to specifications for manufacturing in workshop for mining equipment
- Maintenance : Visiting customer premises to inspect faulty machinery and diagnose for maintenance and repairs of shafts, bearings etc.

**Zimbabwe Newspapers Group (1980)**

**Innovation & Projects Eng**

June 2014 - February 2016 (1 year 9 months)

Harare

Create innovative products, technology concepts, services, and business models to fuel new waves of growth for Zimpapers.

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## **Education**

**University of Cape Town**

Doctor of Philosophy - PhD Candidate, Engineering · (February 2023)

**University of Cape Town**

Master's degree, Mechanical Engineering

University of Cape Town  
Bachelor's degree, Mechanical Engineering