

# Tlotliso Jonas

## Analyst At Elenjical Solutions

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[tlotlisojonas.github.io](https://github.com/tlotlisojonas)



## Work Experience

Software Developer Intern 12 June 2019 - December 2019

### VF EXCLAMATION (PTY) LTD

The duties involved the use of zoho creator to build customer portal interface, API integration in python for data processing and transferring data between different web applications.

Embedded Systems 1 Tutor March 2019 - June 2019

### University of Cape Town

Tutoring embedded systems 1 course to engineering students. The course involves digital electronics of logic gates and c programming of the STM32FOC651 microcontroller and I tutor the c programming part of the course

Engineering Student Intern November 2018 - February 2019

### UCT ROBOTICS AND AGENTS RESEARCH LAB

The project was teamwork and I was responsible for designing (using SolidWorks) and building the mechanical structure of the dual-arm scara robot. The project involved investigating the comparison of different actuators such as pneumatic cylinders, air muscles, stepper motors, dc motors, and servo motors for precision control of the end effector.

Making Waves Project Manager July 2018 - November 2018

### University Of Cape Town

Responsible for managing "Making Waves" Project

#### Key Contributions:

- Coordinating regular meetings
- Assigning work to team members
- Ensuring that team members do their work as expected
- Ensuring that the team meets all the deadline
- Managing the team resources
- Ensure efficient communications among all stakeholders
- Accepting and analysing change requests then making team decisions

Academic Representative February 2018 - November 2018

### KUTLWANONG

Responsible for keeping society members motivated in terms of their academics and help them with anything relating to their academics.

## Summary

Mechanical And Mechatronic Engineering Graduate and Master of Commerce in Risk Management of Financial Markets at the University of Cape Town. I enjoy solving problems from financial engineering, data science, and software development.

## Community Service

### High School Tutoring

Tutoring Bluegubosch High School Matric Learners Mathematics, Physical Sciences, Life Sciences and Geography in 2017.

## Languages

- Sesotho And English.

## Skills

### Programming Languages:



- Python
- MATLAB
- R
- C
- HTML, CSS and JavaScript
- MySQL and SQL
- Deluge Script (Zoho Creator)

### Engineering



- Robotics
- Fitting and turning
- Pneumatics
- CNC
- Basic hand skills
- Meteorology

### Engineering Computer Programs:



- LabView
- SolidWorks

Engineering Student Intern 1 December 2017 - 14 December 2017

## Cape Peninsula University of Technology

Training in Welding, Fitting and Turning, CNC Programming, Metrology, Pneumatics, Basic Hand Skills And Robotics

Floor Representative

February 2017 - November 2017

KOPANO RESIDENCE

### Key Contributions:

- Assisted my floor mates with their daily basic residence needs
- Responsible for collection and distribution of study snacks
- Keeping and monitoring the floor cleaning equipment

## University of Cape Town Completed Courses

### 2020 Courses: MCom Masters

#### Course Description

1. Quantitative Methods
2. Financial Instruments
3. Computing Skills
4. Econometrics
5. Market Risk Models
6. Credit Risk Models
7. Corporate Governance
8. Financial Regulations
9. Current Issues

### 2019 Courses: Electromechanical Engineering

#### Course Description

1. Mechanical Vibrations
2. Measurement and Control
3. Industrial Ecology
4. Product Design
5. Fundamentals of Control Systems
6. System Design
7. Engineering Professionalism
8. Intro to Psychology Part 1

Microsoft Office



- Microsoft Excel
- Microsoft Word
- Microsoft PowerPoint

## Achievements

### 2020:

- FNB Stockbroking and Portfolio Management Trading Competition Winners.

### 2019:

- The Pitch UCT Competition Winners in the Ideation Category

### 2018:

- KPMG Innovation And Collaboration Challenge 2019 National Finalist

### 2015:

- Free State Top 100 Provincial Awards
- Bluegumbosch Secondary Top Learner Awards
- Kutlwanong Maths And Physics Awards

### 2014:

- Bluegumbosch Secondary Top Learner Awards
- Kutlwanong Grade 11 Top Learner Award

### 2013:

- Bluegumbosch Secondary Top Learner Awards
- Kutlwanong Grade 10 Top Learner Award

## Interest And Hobbies

- **Programming:** I enjoy building small c and python programs and develop small websites.
- **Chess:** I love playing chess with friends and I usually participate in chess tournaments.
- **Gym:** I am into physical fitness and gym is part of my weekly routine.
- **Music:** I enjoy listening to good music.

## Degrees

- ElectroMechanical Eng (Hons)