

Tlotliso Jonas

Masters in Risk Management of Financial Markets Student

99 Batts Road, Wynberg, Cape Town 7800 | 0786901240 | tlotlisojonas@gmail.com

tlotlisojonas.github.io



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 STM32F0C651 micro controller 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 of 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 UCT Graduate and currently (2020) doing my final year in 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.

Skills

Programming Languages:



- Python + Numpy + Pandas
- MATLAB
- R
- C
- HTML, CSS and JavaScript
- PHP
- 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

Third Year: 2018 Courses

Course Description

1. Embedded Systems 1
2. Energy Conversion and Utilization
3. Mechatronics Design 1
4. Project Management
5. Mechanics of Solids 2
6. Dynamics 2
7. Thermofluids 2
8. Computer and Intergrated Manufacture and Robotics
9. Professional Communication
10. Machine Element Design 2
11. Machine Element Design 3
12. Statistics for Engineers

Second Year: 2017 Courses

Course Description

1. Introduction to Programming
2. Introduction to Electrical Engineering
3. Introduction to Electronic Engineering
4. Vector Calculus for Engineers
5. Linear Algebra And Deferential Equations for Engineers
6. Thermofluids 1
7. Dynamics 1
8. Mechanics of Solids 1
9. Materials Science in Engineering
10. Machine Element Design 1

Microsoft Office



- Microsoft Excel
- Microsoft Word
- Microsoft PowerPoint

Achivements

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

Languages

- Sesotho And English.

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)