



Tumisang Tshikare

Curriculum Vitæ (July 24, 2018)

Address: Muizenburg 6 melrose road, Cape Town
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Mail: tumisang@aims.ac.za
Nationality: South African
Born: 07.26.1994

EDUCATION

Msc. Mathematical Sciences 2018-current
University of Cape Town and AIMS

This is a Masters Program brought offered by AIMS the African Institute for mathematical Sciences. My research is Big Data Statistics, analysis and machine learning

Postgraduate Diploma - Business Management. 2018-current
ESMT

This is a industry immersion Program for business management offered by ESMT(The European School for Management and Technology

BSc. Astrophysics and Space Science 2016-2017
University of Cape Town

This is a Post-Graduate programme for honours in astrophysics and space science brought about by NASSP(national astrophysics and space science) partnered with SKA(Square kilometer array), SANSA(South African National Space Agency) that started in 2004. Here I worked with large astronomical image data and use fully automated algorithms implemented in python to find astrophysical radio sources as my project

BSc. Maths Physics and Electronics 2012-2015
North West University

This Degree is offered in a double major which for me was Maths and physics and i decided to a third major as they as i saw it key to have a good foundation in all three.

National Senior Certificate(NSC) 2010
Mmabatho High School

WORK EXPERIENCE

Operations Assistant JAN-2013
Avalanche bottled water inc., Vacation Work

for this vacation work i was assisting the operational manager in making sure that the machines that performed functions like filling water bottles, inflating the water bottles and packaging ran smoothly

Lab Tester

JAN-2015

Slurry(PPC Cement). Vacation work

Here I worked at the PPC lab(quality assurance) where we did sample analysis. we analysed raw materials from the mine which were limestone(calcium carbonate), gypsum(additives to cement), Coal(kiln heating), for various qualities to the final product before it is sold, where we tested the strength, setting time and element composition to assure quality .

AWARDED SCHOLARSHIPS AND ACHIEVEMENTS

- 2018 AIMS(African Institute for Mathematical
- 2016 NASSP(National astrophysics and Space Science)
- 2011 North-West Provincial Soccer participant

OTHER ACHIEVEMENTS

Founding and developing an events-company, NOVIP

2013-2014

Mmabatho North-West

This company was responsible for hosting and organizing events mostly educational for secondary and high school learners, including their Matric farewell events

TECHNICAL AND PERSONAL SKILLS

Languages: Setswana (mother tongue)
English (fluent)
Xhosa,Zulu,Afrikaans

Team player verbal and non-verbal communication, critical thinking and problem solving, I can also cope with pressure

Programming Languages: PYTHON, L^AT_EX, C, VI,SQL

Data: Data cleaning, querying, manipulation and visualization, Machine Learning

Analysis: Descriptive, Prescriptive and Predictive Analysis

Intergrated Electronic Circuit: Microcontroller porgramming and Automation in Robotics (Adequate)

INTERESTS AND PERSONALITY

I participate in Sports and outdoor activities, mainly Soccer and Basketball. The last couple of years I have been competing in Soccer League called FIVES football in Cape Town. Educating, Innovation, My friends, family and community form my other big interest. I see myself as a happy, outgoing and reliable person. I am a problem solver and no challenge is too big. The result of my work is often better than expected. I also have a rather recent hobby of playing with mini robots or automotives

REFERENCES

1 Prof. Jeff Sanders : Aims Academic Director
email: jsanders@aims.ac.za

2. Dr Ed. Elson: lecturer Astronomy Department(UCT)
email: drelson. e. c@ gmail. com
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3. Dr Bradley Frank: Supervisor(IDIA-Inter-University Institute for Data Intensive Astronomy - UCT)
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4. Mr Getachew Mekonen : lecturer at NWU Physics Department
getimek@ yahoo. com
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5. Mrs. Tumelo Twane : PPC senior lab analyst
Email: Tumelo. twane@ ppc. co. za