



Sello Clinton Fotoyi

BSc Engineering (Electrical)
Graduate

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OBJECTIVE

As a recent graduate, I aim to learn and gain experience in the fields of (but not limited to) Electrical Engineering and/or Software Development, ideally through a graduate program/internship. I yearn for self-development and career growth, and I would stop at nothing to seize any opportunity obtainable.

EDUCATION

- 2019 **University of the Witwatersrand, Johannesburg | BSc in Engineering: Electrical**
Final year courses: Power Systems, Control Engineering II, Electromechanical Conversion, Measurement Systems, Systems Management and Integration, Electrical Engineering Design II, Electrical Engineering Laboratory Project and Selected Topics in Sociology.
- 2011 **Edumap College | National Senior Certificate upgrade**
Upgraded subjects: Mathematics (57% to 79%), Mathematics Paper 3 (32% to 79%) and physical Sciences (84% to 94%)
- 2010 **Mosupatsela Senior Secondary School | National Senior Certificate**
Passed subjects: Sesotho Home Language, English First Additional Language, Afrikaans Second Additional Language, Mathematics, Mathematics Paper 3, Physical Sciences, Life Sciences and Life Orientation.

PROJECTS

- Jul 2019 – Sep 2019 **Design and Implementation of a controller for a non-linear system**
Field: Control Engineering
Type: Implementation
A pairs project concerned with the design and implementation of a controller for a non-linear system represented by a DC motor-powered sliding gate. The system was modelled with Simulink and the controller's algorithm was implemented on an Arduino Uno microcontroller, which was coded with C programming language
- Sep 2019 – Nov 2019 **Dimensioning a renewable energy hybrid system with energy storage**
Field: Power and Energy
Type: paper design
A household energy usage profile was provided, from which a suitable and feasible renewable energy hybrid system with an energy storage facility was designed, if the photovoltaic array(s) and/or wind turbine(s) were to be available as renewable energy sources.

SKILLS

<i>Electric circuits</i>	●Analysis ●Debugging	●Design	●Implementation
<i>Control Systems</i>	●Analysis	●Modelling	●Control design
<i>Project Management</i>	●PMBOK Framework ●CPM	●WBS ●Risk Management	●PERT
<i>Programming languages</i>	●Assembly ●Java	●C ●Javascript	●C++ ●HTML5/CSS3
<i>Software knowledge</i>	●MS Office ●MPLAB ●IntelliJ Idea	●Matlab/Simulink ●Git ●Webstorm	●Arduino software ●Codelite ●Visual Studio Code
<i>Soft skills</i>	●Communication ●Detail-orientated	●Teamwork ●Strategic problem-solving	●Leadership ●Working under pressure

CERTIFICATES

Oct 2019 **Engineering Leadership and Professional Development**
Institution: School of Electrical and Information Engineering, University of the Witwatersrand
This was the outcome of a practical orientated course aimed at developing these competencies within an engineering context.

MISCALLENEOUS

<i>Languages</i>	■Sesotho (native)	■English (Professional working proficiency)	■isiZulu (basic)
<i>Hobbies/interests</i>	■Video games	■Coding	■Reading

REFERENCES

Lonwabo Rarane
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Sandra Maape
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