

Phiwe Patrick Mbongwa

BSC ELECTRICAL ENGINEERING

688 Winterton Khethani Township Kwazulu Natal

☎ (+72) 72-3301-121 | ✉ phiwep.mbongwa@gmail.com | 📱 phiwe-mbongwa-a976b0168

Summary

Energetic Electrical engineer Graduate. Seeking to use proven design process and electrical engineering skills to solve challenging engineering problems, making the most of available tools. Technical experience in road traffic signals remote monitoring systems (RMS) and software development obtained during university vacation holidays. A C++ and Java software developer with strong love of eclipse IDE in a customized development environment.

Personal Details

- **Date of birth** : 28 July, 1992
- **Identity number** : 9207285845089
- **Gender** : Male
- **Race** : Black
- **Home language** : IsiZulu
- **Nationality** : South African
- **Criminal record** : None
- **Health status** : Good
- **Merital status** : Single
- **Hobbies** : Reading and Coding

Education

Wits(University of the Witwatersrand)

BSC ELECTRICAL ENGINEERING

Johannesburg, South Africa

December. 2018

Ntathakusa Secondary School

METRIC CERTIFICATE

Winterton, KZN, South Africa

December. 2011

Remarkable Project

Electrical Engineering Student

Wits, Johannesburg

Jan. 2016 - Oct. 2018

- An investigation project of the power quality issues imposed by a distribution generator installed on the rooftop of the lab: Measurement results were taken using power quality meters and a Matlab/Simscape model was developed to aid in investigation of power quality parameters.
- Design of a PV Power System: A design project where weather data and house load requirements were used to design a standalone PV system. Calculations were performed in Matlab and simulations in using Simulink.
- Super capacitor based phone battery charging system: An electronics project that involves designing buck and boost converters using mosfets, super capacitor and other components.
- Gyruus acarde game: Designing and implementing the game using c++ language and SFML library
- Relational data table Using parallel programming in python , MPI and map reduce to relate big data tables.

Peer Educator and School President

Ntathakusa Secondary School

Jan. 2010 - Oct. 2011

- Designed the first school library and participated in its implementation.
- Organized school events, social programs and community awareness.

Work Experience

Johannesburg Roads Agency

TECHNICAL ASSISTANT

Johannesburg

Nov. 2017 - Feb 2018

- Installation and maintainance of Remote monitoring Systems of Roads Traffic signals
- Fault logging of road Traffic Signals

Ayanda Poutry Products

CASHIER AND SALES PERSON

- Selling Poultry products from the farm to small businesses and managing finances of the company
- Marketing products to local supermarket

Winterton, KZN, South Africa

Jan. 2015 - Jan. 2016

Psybergate

INTERN JAVA SOFTWARE DEVELOPERT

- Volunteering in a Software Graduate Program to improve my Java software development skills

Johannesburg

Jan. 2019 - Present

References

Eric Pako

Johannesburg Roads Agency

- Position: Technical Director
- Contact Number: 011 491 5786

Chris Naidoo

Psybergate

- Position: Technical Director
- Contact Number: 082 809 5899

Lungile Mthethwa

Ayanda Poutry Product

- Position: Technical Manager
- Contact Number: 061 483 5459

Raazia Moosa

Wits CLTD

- Position: Supervisor
- Contact Number: 011 717 1442

UNIVERSITY OF THE
WITWATERSRAND,
JOHANNESBURG



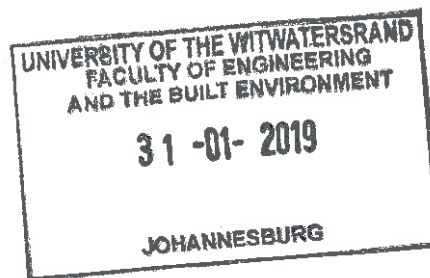
Faculty of Engineering and the Built Environment
Private Bag 3 Wits, 2050
Fax: 011 7177009
Tel: 011 7177007

Reference: Charlotte Mosimane
E-mail: charlotte.mosimane@wits.ac.za

30 January 2019
Person No: 606352

Mr. Phiwe Patrick Mbongwa
Khethani Location
One Room
Section
House No: 688
Winterton 3340
KwaZulu-Natal
South Africa

606352@students.wits.ac.za



Dear Mr. Mbongwa

COMPLETED ALL REQUIREMENTS FOR QUALIFICATION - Bachelor of Science in Engineering (Electrical)

We confirm that on **29 January 2019** all the requirements have been met for the award of the degree of Bachelor of Science in Engineering (Electrical).

Graduation takes place on **28/29 March 2019**. Further information concerning the date, time and venue of the graduation ceremony will be forwarded to you in due course from the Graduation Office. In the interim, you can visit the graduation office website <http://www.wits.ac.za/students/graduations> for more information.

Congratulations on your achievement!

Yours sincerely

Mrs. Charlotte Mosimane
Faculty Officer
Faculty of Engineering and the Built Environment

IT IS HEREBY CERTIFIED THAT THE
TRUE COPY OF THE ORIGINAL DOCUMENT
AND THAT THERE IS NO INDICATION THAT
ALTERATIONS HAVE BEEN MADE THERETO
BY AN UNAUTHORISED PERSON.
DATE: 03/01/2019
NAME: Siliyetha Luthbet
RANK: Telle
SIGNATURE: [Signature]
OFFICE: [Signature]



GEREGISTREERDE WOON EN POSADRES

1. Bewaar die bewys van u GEREGISTREERDE WOON EN POSADRES in hierdie sakke.
2. Indien u van adres verander het, of indien besondernede van u huidige adres, by straatnaam en/of nommer, egs verander het, moet die vorm KENNISGEWING VAN ADRESVERANDERING wat in die sakke agter in die identiteitsdokument is, gebruik word om die verandering aan te meld en moet dit ingedien word by plekasse word aan die naaste streek-distrikkantoor van die DEPARTEMENT VAN BINNELANDSE SAKE

REGISTERED RESIDENTIAL AND POSTAL ADDRESS

1. Keep the proof of your REGISTERED RESIDENTIAL AND POSTAL ADDRESS in this pocket.
2. If you have changed your address, or, if particulars of your present address, and name of street and/or street number, etc., have been changed, the NOTICE OF CHANGE OF ADDRESS form in the pocket at the back of the identity document must be used to report the change and it must be handed in or posted to the nearest regional/district office of the DEPARTMENT OF HOME AFFAIRS.

I.D.No. 920728 5845 08 9



S.A. BURGER/S.A. CITIZEN

VAN/SURNAME
MBONGWA

VOORNAME/FORENAMES
PHINE PATRICK

GEBOORTEDISTRIK OF LAND/
DISTRICT OR COUNTRY OF BIRTH

SOUTH AFRICA

GEBOORTEDATUM/
DATE OF BIRTH

1992-07-28

DATUM UITGEREIK
DATE ISSUED

2009-08-07



UITGEREIK OP ORDEG VAN DIE
DIREKTUR-GENERAAL
BINNELANDSE SAKE

ISSUED BY AUTHORITY OF THE
DIRECTOR-GENERAL
HOME AFFAIRS



REPUBLIC OF SOUTH AFRICA

National Senior Certificate

Awarded to



(Signature)

7200886-3

Phiwe Patrick Mbongwa

JNP mbongwa

Identity number 9207285845089

Subject	%	Achievement level
IsiZulu Home Language	83	7
English First Additional Language	73	6
Mathematics	77	6
Life Orientation	85	7
Agricultural Science	69	5
Life Sciences	73	6
Physical Sciences	76	6
*****	***	*

This candidate is awarded the National Senior Certificate and has met the minimum requirements for admission to bachelor's degree, diploma or higher certificate study as gazetted for admission to higher education, subject to the admission requirements of the higher education institution concerned.

With effect from December 2011

M. S. LAKOMETSU

Chief Executive Officer

120 8986 0858 X



This certificate is issued without alterations or erasure of any kind

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Council for Quality Assurance in
General and Further Education and Training
South Africa