

CURRICULUM VITAE OF Phaphana Hangwelani Mercy

PERSONAL DETAILS			
Name:	Hangwelani Mercy	Surname:	Phaphana
ID Number:	900720 XXXXXXXX	Driver's license:	Code C1
Contact Cell	0713669823/ 0848061101	Email Address:	hmpaphana@gmail.com
Gender:	Female	Nationality:	South Africa
Home Language:	Tshivenda	Other Languages:	English
Physical Address: 4 Casa Mia, 249 Jean Avenue, Die Hoewes, Centurion, 0157		Postal Address : P O BOX 713 TSHAULU 0987	
Key Experience: Professional Experience and Achievements			
<p>Hangwelani is a certified Prof Geographical Information Science Practitioner (PGP 1455) who holds a Bachelor of Science (Honours) in Geoinformatics from the University of Pretoria. She has 5 years of working experience and have work in various fields of GIS such as policy and standards (research), GIS implementation, map production, data (capturing, analysis, sourcing and distribution), assets management, housing finance and business processes, data distribution, and mineral resources. She has led and manage several projects that are completed successfully, within budget and in time. She is proficient in the use of ArcGIS and MS SQL among other software packages.</p>			

EDUCATION AND QUALIFICATIONS			
Institution Name	Qualification(s) Obtained	Year obtained	
University of Pretoria	Bachelor of Science (Honours) in Geoinformatics	2014	
University of Pretoria	Bachelor of Science in Geography	2012	
Milton Mpfumedzeni Secondary School	Matric/Grade 12	2008	
TRAINING			
COURSE NAME	INSTITUTION	PLACE	DATE
1. Introduction to Visual Studio V8	iGlobe System	Centurion	9-20 July 2012
2. Advanced Course in Visual Studio V8	Analysts		
3. Geomedia	Intergraph South Africa	University of Pretoria	16 August 2013
4. ArcGIS II: Essential Workflow	ESRI-SA	Midrand	11-13 March 2015

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ARTICLES		
Publication name	Description	Date issued/used
10th International Conference of African Association of Remote Sensing of the Environment (AARSE 2014)	Research project titled: Determining the availability of, and access to, fresh fruit and vegetables in Arcadia and Eastwood, Pretoria	October 2014
BSC MAJOR SUBJECTS: UNDERGRADUATE AND POST GRADUATE		
<ul style="list-style-type: none"> ❖ Spatial Databases ❖ GIS Logistics and Data Acquisition ❖ GIS Professional Practice ❖ Advanced Remote Sensing ❖ Internet GIS ❖ Informatics 	<ul style="list-style-type: none"> ❖ Weather Forecasting ❖ Cartography ❖ Geographic Information System ❖ Geography ❖ Geomorphology 	

PROFESSIONAL EXPERIENCE				
Company Name	Location of Company	Position Held	Duration	Duration
Anglo American	Johannesburg	Giscoe onsite contractor	5 Months	2018/11/05 - 31/03/2019
GISCOE	Centurion	Jnr Geoinformatics Specialist	1 Year 11 Months	2017/05/01- 31/03/2019
GISCOE	Centurion	GIS Technician	2 Years	2015/06/01- 2017/04/30
The Department of Rural Development and Land Reform	Pretoria CBD	GIS Intern	1 Year 2 Months	2014/04/01- 2015/05/29
The Affordable Land and Housing Data Centre (al+hdc)	Rosebank	Data and Dashboard Analyst	2 Month	2014/02/03- 2014/03/31
Data world	Rivonia	GIS Data capturer	1 Month	2013/05/06- 2013/06/07

CURRICULUM VITAE OF Phaphana Hangwelani Mercy

PROFESSIONAL BODIES MEMBERSHIP	
Name of Institution	Membership number
GISSA	JXXZ-3136_Hangwelani Mercy Phaphana or GISSA_2018/1144
PLATO	PGP or GPr GISc 1455 (07 August 2017)

Work Details: Record of Employment & Experience (GIS and Data Management Related)

ANGLO AMERICAN	GISCOE ONSITE CONTRACTOR
<p>Anglo American is a globally diversified mining business. The Anglo portfolio spans diamonds (De Beers), platinum, copper, iron ore and manganese, metallurgical and thermal coal, and nickel across several locations including South African, Chile, Brazil, Peru, Australia and Finland.</p> <p>My Duties at Anglo is to</p> <ul style="list-style-type: none">➤ Create: Map Services, Web Map and Web App➤ Manage Databases➤ Capture minerals samples and boreholes➤ Projection <p>DURATION: 05 November 2019 – 31 March 2019 (5 months) - contract ended</p>	

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GISCOE

JNR GIS SPECIALIST PREVIOUSLY GIS TECHNICIAN

Giscoe (Pty) Ltd. is a South Africa based-company, which specialises in providing spatial solutions to a broad market that includes government, mining and diverse private sector organisations. Giscoe was formed in 1989 as a GIS services and solutions company, focused on delivering functional spatial applications and for over 26 years has developed computer-based solutions that improve an organization's service delivery to its customers.

My Duties at GISCOE are:

- Capturing and updating large dataset for immovable assets such as Road and storm water, water, electricity, street light, sewer, properties, Sectional title, servitudes, cadaster, addresses etc.
- Compile geographic data from a variety of sources including CSG diagrams, satellite imagery, aerial photographs, road dataset, cadastre, mapillary, and engineering as build drawings / maps.
- Perform research. Define project processes and deliverables
- Have led and manage several projects or teams in projects. Training staff
- Design and Create customer-based GIS web app (.mxd, Map Service, Web Map and Web App).
- Data Quality (control, check and assurance), Performed routine maintenance
- Automating processes using model builder and Bizagi modeler. Data and Risk analysis
- Data cleaning. Monitoring and verification of field dataset
- Documentation: collection, filling, writing (reports and user manuals)
- Design, create, update and query spatial and non-spatial databases
- Identify the need to update databases and source required datasets according to set standards
- Data manipulation, geoprocessing, (spatial, attribute and statistical) analysis, Georeferencing
- Attend to audit queries and respond in time.
- Add value to project planning and decision-making processes.
- Analysis and interpretation of spatial and non-spatial data.
- Reconcile asset register against general ledger; Compile, Create and update assets register
- Identify and Update disposed and removed assets, newly found/ new acquisitions
- Calculate assets cost and asset life cycle.
- Create servitude register, calculate cost per servitude.
- GIS Data and database (SQL Server) management and administration for all projects
- Setup field devices for data collection using Collector for ArcGIS
- Testing Functionality of new applications and tools

DURATION: 01 June 2015 – 31 March 2019 (3 years 10 months) - contract ended

CURRICULUM VITAE OF Phaphana Hangwelani Mercy

THE DEPARTMENT OF RURAL DEVELOPMENT AND LAND REFORM

GIS INTERN

The National Spatial Information Framework (NSIF) is a national initiative to co-ordinate the development of infrastructure needed to support the utilization of spatial information in decision making. This building of a "Spatial Data Infrastructure" (SDI) as it is termed in similar endeavors all over the world, includes policies, institutional arrangements, developing human resources and standards for geographic information.

My Duties at DRDLR was:

NATIONAL SPATIAL INFRASTRUCTURE FRAMEWORK (NSIF)

- Aid SAGIMS sub Committees and the directorate director
- Identify stakeholders/ custodians, meet with them and discuss spatial data and challenges faced in promoting the SDI Act
- Data capture: Capture metadata record for the catalogue, update metadata database
- Data Sourcing: collect contact information for GIS managers or contact people for spatial data from different municipalities (local and districts), Government departments, universities, banks and network operators.
- Create and update contact databases
- Search and organise documents, research and write report by summarising papers
- Organise and attend meetings and workshops, take minutes and report writing
- Design and make newsletter. Participate in GIS forums
- Close liaison with data custodians, stakeholders and the office of the presidency

SPATIAL PLANNING AND LAND USE MANAGEMENT ACT (SPLUMA)

- Supervise and run field data collection for claimed land portion. Print maps in colour and big size
- Map production, designing and producing professional maps for claimed land portion as per request
- Checking quality, accuracy, correctness, completion of captured data and received data.
- Attend to internal and external queries related to land claim and respond in time

NATIONAL GEO-SPATIAL INFORMATION (NGI)

- NGI data distributor; Provide support to internal and external clients as per data request
- Map production, compilation, and photo interpretation, Print maps in colour and big size
- Attend to internal and external queries related to NGI data sourcing and respond in time

DURATION: 01 April 2014 until 30 May 2015 - Internship program

CURRICULUM VITAE OF Phaphana Hangwelani Mercy

CENTRE FOR AFFORDABLE HOUSING FINANCE IN AFRICA (CAHF)

DATA AND DASHBOARD ANALYST

My Duties at CAHF (AL+HDF) was:

- Create housing finance indicator dashboards (Tableau: maps, charts and graphs), quality check and
- Report editing

DURATION: February 2014 – March 2014 - Part-time employment

DATA WORLD

GIS DATA CAPTURER

My Duties at Data World was:

- Bus and Taxi route data capturing given directions instructions and cleaning
- Geo-coding and georeferencing

DURATION: May 2013 until June 2013 (Temporary Employment)

OTHER SKILLS

- Ability to work under pressure, Goal driven, Communication and interpersonal skills
- Good understanding and knowledge of projections, coordinate systems, Problem Solving Skills
- Management (Project, Time, People), Team Player and Leader, Self-Motivate
- Basic knowledge of image processing with ENVI software, Geo-Media Pro, Geo-server
- Basic knowledge of 3d modelling with MicroStation, and ArcGIS

SOFTWARES PACKAGES

- ArcGIS products (Pro, ArcMap, Online, Collector, Web App, Server)
- Microsoft office package (including access), knowledge of google earth pro
- PostgreSQL, Xtools pro, PlanetGIS and QGIS, geo-media pro, google earth
- Microsoft Visual Basic, MATLAB, R-statistics, grass, Tableau, MS SQL, Bizagi

CURRICULUM VITAE OF Phaphana Hangwelani Mercy

PROGRAMMING LANGUAGES

- VB.net, C#, C++, Java Script, HTML, XML, PHP, Python

REFERENCES

Reference 1

Name and Surname	Owen Maswanganye	Position	Deputy Director
Employer Name	The Department of Rural Development and Land Reform		
Contact Details	0726599170 012 312 9281	E-mail	owen.maswanganye@drdlr.gov.za

Reference 2

Name and Surname	Andani Ralulimi	Relation	Friend
Employer Name	The Department of Rural Development and Land Reform		
Contact Details	012 312 8725 0711289099	E-mail	aralulimi@gmail.com

Reference 3

Name and Surname	Dorothy Leskiewicz	Position	Geoinformatics Specialist
Employer Name	GISCOE , Anglo American		
Contact Details	0824192381	E-mail	dleskiewicz@giscoe.com dorota.leskiewics@angloamerican.com



SOUTH AFRICAN
GEOMATICS COUNCIL

CERTIFICATE OF REGISTRATION

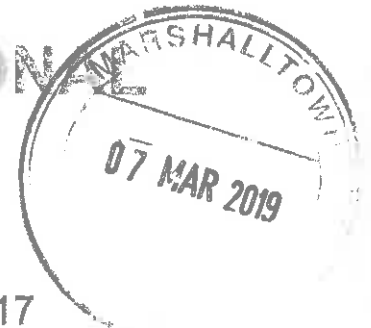
This is to certify that

HANGWELANI M PHAPHANA

was registered as a

GEOMATICS PROFESSIONAL

(Geographical Information Science)



On the 7th day of August in the year 2017

in accordance with the provision of the Geomatics Profession act, 2013 Act No. 19 of 2013 and is entitled to carry on his/her profession or calling in any part of the Republic of South Africa in terms of the said Act and rules framed thereunder.

Issued under the Seal of the Council



Handwritten signatures and dates: 07 MAR 2019, 07 MAR 2019, 07 MAR 2019.

[Handwritten signature]

Chairman

[Handwritten signature]

Registrar

Registration Number: **GPr GISc 1455**



University of Pretoria

The Council and Senate hereby declare that
at a congregation of the University the degree

Bachelor of Science Honours in Geoinformatics

with all the associated rights and privileges
was conferred on

Hangwelani Mercy Phaphana

in terms of the Higher Education Act, 1997 and the Statute of the University

On behalf of the Council and Senate

Vice-Chancellor and Principal

On behalf of the Faculty of
Natural and Agricultural Sciences

Dean (Acting)

Registrar



2014-09-04



University of Pretoria

The Council and Senate hereby declare that at a congregation of the University the degree

Bachelor of Science in Geography

with all the associated rights and privileges was conferred on

Hangwelani Mercy Phaphana

in terms of the Higher Education Act, 1997 and the Statute of the University

On behalf of the Council and Senate

On behalf of the Faculty of Natural and Agricultural Sciences

Vice-Chancellor and Principal

Dean

UNIVERSITY OF PRETORIA
I HEREBY CERTIFY THAT THE ORIGINAL DOCUMENT
HEREIN IS IN MY POSSESSION AND THAT I HAVE
NOT MADE ANY ALTERATIONS THEREIN.
SIGNED BY AN AUTHORIZED PERSON
07 MAR 2019
SIGNATURE



Registrar

STUDENT NUMBER 29392935
 SURNAME Phaphana
 FIRST NAMES Hangwelani Mercy
 DATE OF BIRTH 1990-07-20
 TYPE OF EXEMPTION Admit to Bachelor's Degree



UNIVERSITEIT VAN PRETORIA
 UNIVERSITY OF PRETORIA
 YUNIBESITHI YA PRETORIA

00390796

DATE ISSUED 2015-09-28

OFFICIAL ACADEMIC RECORD

Only subjects passed

Module code	Module name	Credits	%	Results
CIL111	Computer literacy 111	4.00	60	B (Pass)
CIL121	Information literacy 121	4.00	60	B (Pass)
EOT120	Academic literacy (2) 120	6.00	54	B- (Pass)
GGY132	Cartographic Skills 132	4.00	56	B (Pass)
GGY156	Introduction to human geography 156	6.00	58	B (Pass)
GGY157	Introduction to environmental sciences 157	6.00	50	B- (Pass)
GGY162	Remote Sensing 162	4.00	55	B (Pass)
GGY166	Southern African and global geomorphology 166	6.00	53	B- (Pass)
GMC110	Cartography 110	8.00	55	B (Pass)
INF112	Informatics 112	10.00	67	B+ (Pass)
WKD152	Atmospheric circulation and climate 152	8.00	50	B- (Pass)
WKD162	Dynamic and numerical meteorology 162	8.00	68	B+ (Pass)
WKD164	Climate and weather of Southern Africa 164	8.00	53	B- (Pass)
WTW143	Calculus 143	8.00	50	B- (Pass)

Weighted average % for term: **47.09** Cumulative weighted average: **47.09**

OUTCOME: Continuation subject to readmittance

Module code	Module name	Credits	%	Results
EOT110	Academic literacy (1) 110	6.00	50	Pass
GES120	History 120	12.00	57	Pass
GMC210	Cartography 210	12.00	55	Pass
INF153	Informatics 153	5.00	58	Pass
INF154	Informatics 154	5.00	50	Pass
INF163	Informatics 163	5.00	52	Pass
INF164	Informatics 164	5.00	75	Pass with distinction
KTS120	Cultural history 120	12.00	50	Pass
WKD151	Atmospheric processes 151	8.00	50	Pass
WTW153	Calculus 153	8.00	50	Pass

Weighted average % for term: **45.95** Cumulative weighted average: **46.56**

OUTCOME: Permitted to proceed

THIS IS A TRUE COPY OF THE ORIGINAL DOCUMENT AND THAT THERE IS NO INDICATION THAT ALTERATIONS HAVE BEEN MADE THEREIN BY AN UNAUTHORIZED PERSON
 DATE 07-03-2019
 NAME Hangwelani Phaphana
 SIGNATURE *[Signature]*



for REGISTRAR *[Signature]*

STUDENT NUMBER 29392935
 SURNAME Phaphana
 FIRST NAMES Hangwelani Mercy
 DATE OF BIRTH 1990-07-20
 TYPE OF EXEMPTION Admit to Bachelor's Degree



UNIVERSITEIT VAN PRETORIA
 UNIVERSITY OF PRETORIA
 YUNIBESITHI YA PRETORIA

000326795

DATE ISSUED 2015-09-28

OFFICIAL ACADEMIC RECORD

Term: 2011	Program: BSc	Plan: Geography		
In partial fulfilment of the requirements for Bachelor of Science				
Module code	Module name	Credits	%	Results
GGY252	Process geomorphology 252	12.00	50	Pass
GGY266	City structure, environment and society 266	20.00	56	Pass
GGY283	Introductory geographic information systems 283	12.00	71	Pass
GIS220	Geographic data analysis 220	12.00	57	Pass
INF214	Informatics 214	14.00	62	Pass
INF225	Informatics 225	14.00	50	Pass
INF261	Informatics 261	7.00	54	Pass
WKD253	Community project 253	18.00	67	Pass
GMA220	Remote sensing 220	16.00	50	Pass

Weighted average % for term: **55.95** Cumulative weighted average: **49.95**

OUTCOME: Permitted to proceed

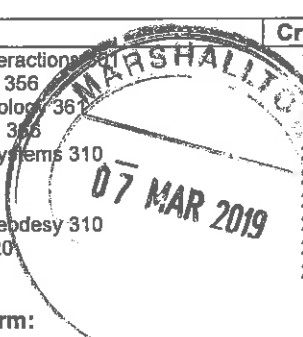
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Term: 2012	Program: BSc	Plan: Geography		
In partial fulfilment of the requirements for Bachelor of Science				
Module code	Module name	Credits	%	Results
ENV301	Human environmental interactions 301	18.00	69	Pass
GGY356	Sustainable development 356	18.00	62	Pass
GGY361	Environmental geomorphology 361	18.00	50	Pass
GGY366	Development frameworks 366	18.00	53	Pass
GIS310	Geographic information systems 310	24.00	50	Pass
GIS320	Spatial analysis 320	24.00	61	Pass
GMA320	Remote sensing 320	24.00	66	Pass
GMC310	Geometrical and space geodesy 310	24.00	50	Pass
GMT320	Geoinformatics project 320	24.00	75	Pass with distinction
WKD250	Weather forecasting 250	24.00	58	Pass

Weighted average % for term: **59.50** Cumulative weighted average: **53.24**

OUTCOME: Complies with qualification requirements

On 2012-11-30 the abovementioned student complied with all the requirements for the Bachelor of Science qualification. It will be/was awarded/conferred on 2013-04-17.



Term: 2013	Program: BScHons	Plan: Geoinformatics		
In partial fulfilment of the requirements for Bachelor of Science Honours				
Module code	Module name	Credits	%	Results
ENV703	Research and presentation skills 703	10.00	58	Pass
GMA705	Advanced remote sensing 705	20.00	66	Pass
UNI763	Internet GIS 763	20.00	54	Pass
UNI766	Spatial statistics and geodesy 766	20.00	50	Pass
UNI791	GIS professional practice 791	20.00	51	Pass
UNI792	Geographic information systems project 792	30.00	65	Pass

Weighted average % for term: **56.21** Cumulative weighted average: **56.21**

for REGISTRAR

Handwritten signature

STUDENT NUMBER 29392935
 SURNAME Phaphana
 FIRST NAMES Hangwelani Mercy
 DATE OF BIRTH 1990-07-20
 TYPE OF EXEMPTION Admit to Bachelor's Degree



UNIVERSITEIT VAN PRETORIA
 UNIVERSITY OF PRETORIA
 YUNIBESITHI YA PRETORIA

000350799

DATE ISSUED 2015-09-28

OFFICIAL ACADEMIC RECORD

OUTCOME: Permitted to proceed

Term: 2014	Program: BScHons	Plan: Geoinformatics		
In partial fulfilment of the requirements for Bachelor of Science Honours				
Module code	Module name	Credits	%	Results
COS787	Spatial databases 787	15.00	52	Pass
UNI787	GIS logistics and data acquisition 787	20.00	58	Pass

Weighted average % for term: **55.43** Cumulative weighted average: **56.06**

OUTCOME: Complies with qualification requirements

On 2014-06-30 the abovementioned student complied with all the requirements for the Bachelor of Science Honours qualification. It will be/was awarded/conferred on 2014-09-04 .

Conduct satisfactory

END OF REPORT

[Faint stamp and handwritten signature]
 07 MAR 2019
[Handwritten signature]



[Handwritten signature]
 for REGISTRAR *[Handwritten signature]*



REPUBLIC OF SOUTH AFRICA

National Senior Certificate

Awarded to

Hangwelani Mercy Phaphana

Identity number 900720 ~~XXXXXX~~



Subjects

Tshivenda Home Language
 English First Additional Language
 Mathematics
 Life Orientation
 Geography
 Life Sciences
 Physical Sciences

%	Achievement level
81	7
56	4
76	6
75	6
65	5
51	4
58	4
***	*

Signature: *Hangwelani Mercy Phaphana*
 Date: 07 MAR 2019
 Signature: *[Handwritten]*

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 2008

This certificate is issued without alteration or erasure of any kind.

090 1326 3248 D

[Handwritten Signature]
 Chief Executive Officer



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

(See reverse for more information)

THIS CERTIFICATE IS PRINTED ON WATERMARK PAPER - PLEASE HOLD UP TO THE LIGHT TO VERIFY

Esri Certificate

This is to certify that

Hangwelani Mercy Phaphana

ID Number

900720

Attended

ArcGIS II: Essential Workflows

(TRN15-075)

Date

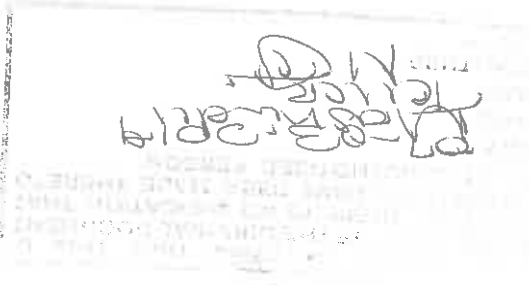
11 Mar 2015 - 13 Mar 2015

Jubon

Instructor

Alister

Manager



esri South Africa

Simplifying Decisions

Making a Difference

This is to certify that

HM PHAPHANA

ID. 900720

*Has successfully completed
an Internship Programme
in the field of*

GEOGRAPHICAL INFORMATION SYSTEM

From

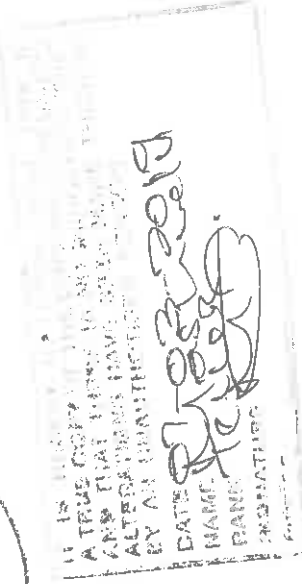
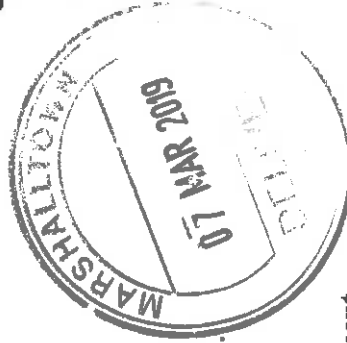
01 APRIL 2014– 30 MAY 2015

[Signature]
Signed

**Acting-Director:
Human Resource Development**

30/05/2015
**rural development
& land reform**

Department:
Rural Development and Land Reform
REPUBLIC OF SOUTH AFRICA



[Signature]
Signed

Acting-Skills Development Facilitator

Date: *30/05/2015*