

# CURRICULUM VITAE OF PHAPHANA HANGWELANI MERCY

## PERSONAL DETAILS

<b>Name:</b>	Hangwelani Mercy	<b>Surname:</b>	Phaphana
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<b>Gender:</b>	Female	<b>Nationality:</b>	South Africa
<b>Home Language:</b>	Tshivenda	<b>Other Languages:</b>	English

## Key Experience: Professional Experience and Achievements

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.

## 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 Analysts/ Bentley (Microstation)	Centurion	9-20 July 2012
2. Advanced Course in Visual Studio V8			
3. Geomedia	Intergraph South Africa	University of Pretoria	16 August 2013
4. ArcGIS II: Essential Workflow	ESRI-SA	Midrand	11-13 March 2015

## PROFESSIONAL BODIES MEMBERSHIP

Name of Institution	Membership number
GISSA	GISSA_2018/1144
PLATO	PGP or GPr GISc 1455 (07 August 2017)

## 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

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## PROFESSIONAL WORK EXPERIENCE +5 YEARS

GISCOE

JNR GIS SPECIALIST PREVIOUSLY GIS TECHNICIAN

Major projects:

1. **Mineral Resource:** Provide support to clients in mineral resource (mining), Major Clients LSc Lithium Corporate and Anglo American.

My Duties at Mineral Resources was to:

- Create Customer based Map Services, Web Map and Web App
- Manage Databases (structure datasets according to set standards)
- Capture Minerals samples and Boreholes (Drills)
- Data Projection

2. **Immovable assets register:** Participate on Immovable assets register projects for local authorities in the Northern Cape Province (Municipalities: Phokwane, Renosterburg, Dikgatlong and Magareng) and the Free State Province (Municipalities: Centlec, Tokoloko, and Maluti A-phufong.) Manage and register assets and build database from local municipality level to District, Provincial level and National Level (top bottom or bottom top) using set standards and structures.

My Duties at GISCOE was to:

- 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. Have led and manage several projects and teams in projects. Training staff
- Design and create customer-based GIS Services (.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
- Documentation: collection, filling, writing (reports and user manuals)

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- 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 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

**THE DEPARTMENT OF RURAL DEVELOPMENT AND LAND REFORM**

**GIS INTERN**

## NATIONAL SPATIAL INFRASTRUCTURE FRAMEWORK (NSIF)

- Aid SAGIMS (South African Geoinformatics Management strategy) 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 Data custodians and stakeholders from 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

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- 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

## CAHF (AL+HDF)

## DATA AND DASHBOARD ANALYST

- My Duties at centre for Affordable Housing Finance in Africa (CAHF (AL+HDF)) was:
- Analysis Housing finance indicator datasets and Create housing finance indicator dashboards per bank using Tableau and display results in the form of 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 data cleaning
- Geo-coding and georeferencing

**DURATION:** May 2013 until June 2013 (Temporary Employment)

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## OTHER SKILLS

Communication skills	I learned to establish effective working relationships quickly with people, often different from me, in the projects I have taken on. Presenting my work to senior executives has given me the confidence in communicating with large groups of people.
Management	I learned to take charge in Management of Project, Time and People. I became a Team Player and Leader. I can work under pressure and meet tight deadlines.
Willingness to learn	I have always been a keen learner and have picked up new system quickly. I like the way GIS, analysis and Programming fits together and I am enjoying learning how real-life problems can be solved with GIS models. I have always found any new knowledge or skills interesting.
Problem solving	I have a questioning and determined attitude to problems. I would describe myself as a creative and passionate Professional: once a topic captures my interest, I am quick to grasp it and I will question methods and look for new strategies.
Attention to detail	I take pride in my work and aim for my highest possible standard. I made the job that I had enjoyable by setting myself high standards of cleanliness, speed, standards and accuracy.

## SOFTWARES PACKAGES

- ArcGIS products (Pro, ArcMap, Online, Collector, Web App, Server), Microstation
- 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

## PROGRAMMING LANGUAGES

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

## REFERENCES

1. Owen Maswanganye  
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