



# Annah Moshidi Mokgukulushi

## Geospatial Specialist

Geospatial Specialist with over 5 years experience in the geomatics field. Skilled in Geographical Information Systems, Geospatial Data Collection and Analytics, Database Management, Map Production, Photogrammetry, GPS and projection transformations, LiDAR Processing and Aerial & Land Surveying.

Professional Registration: South African Geomatics Council

Geomatics Professional: GPRGISc 1559

## Contact

### Phone

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### Email

ammokgukulushi@gmail.com

### Location

Johannesburg, South Africa

## Education

2022

**Business Analytics and Data Science with Python Courses**

University of Cape Town

2016 - 2017

**BSc (Hons) Geoinformatics**

University of Pretoria

2013 - 2015

**BSc Geology**

University of Pretoria

## Expertise

ESRI ArcGIS Products & Global Mapper

Microsoft Office

Oracle and Microsoft SQL Developer

Python Scripting

Orthovista Image Processing and ENVI

TerraSolid CAD - Microstation

Adobe Photoshop

Tableau

Google Earth Pro

Site Selection using GIS Applications

## Achievements and Publications

Member of the Golden Key International Honour Society

AfricaGEO 2018 Conference - Using Accessibility to Investigate the Level of Integration of the various Public Transport Systems within the City of Johannesburg (co-supervised by Ms. Marcelle Hattingh)

## Experience

### June 2018 - Current

Woolpert Africa | Bryanston

#### Geospatial Specialist

Geospatial data capture, analysis, archiving and updating using ArcGIS, qGIS, Global Mapper and Microstation.

Spatial data and geodatabase management, design and maintenance.

Metadata and geospatial data capture using SQL.

Python scripting for GIS, LiDAR and Image Processing.

GIS & CAD map production and quality assurance.

CAD and GIS digital survey mapping for various mines in Africa.

GPS, ground control truthing and projection transformation.

Digital image processing & classification and ortho rectification using TerraPhoto, Orthovista and Photoshop.

3D spatial analysis and stockpile volume calculations from LiDAR data.

Surface change detection and surface movement analysis using LiDAR and satellite imagery.

Survey report writing, staff training, geospatial research and presentation.

Geospatial project production management.

### December 2017 - May 2018

Information Decisions Systems (Pty) Ltd | Sunninghill

#### Geospatial Practitioner

Responsible for monitoring and development of GIS and Environmental projects.

Metadata Capture using Oracle SQL Developer consulting for Eskom Holdings SOC Ltd.

Land Use Digitization and Classification for Medupi Power Station - Eskom Holdings SOC Ltd.

Spot Building Count using SPOT Satellite Imagery - Eskom Holdings SOC Ltd.

Route Optimizations for City of Ekurhuleni Waste Department.

Spatial Data Capturing, Preparation, Database Storage and Analysis using GIS tools and Microsoft Excel.

Spatial Data Cleaning and Quality Assurance.

Locality and Environmental Map Production for various GIS and Environmental projects.

### February 2016 - December 2016

University of Pretoria | Pretoria

#### GIS and Remote Sensing Practical Demonstrator

GIS and Remote sensing practical demonstrator and teaching assistant at the Department of Meteorology, Geography and Geoinformatics using ArcGIS, GeoDA, PyScripter, SAGA, RStudio and ENVI.

## References

### Mr. Norman Banks

Retired co-founder of Southern Mapping Company (Woolpert Africa)

(Professional Registration SAGC GPr LS0792)

Contact Details upon Request

### Mr. Jacques Pieterse

Former Manager at Southern Mapping Company (Woolpert Africa)

(Professional Registration SAGC GTg GISc1054)

Contact Details upon Request

### Mr. Graeme Engelbretch

Managing Director at Information Decisions Systems (PTY) Ltd

(Professional Registration SAGC GPr GISc1275)

Contact Details upon Request

### Ms. Marcelle Hattingh

BSc (Hons) research project co-supervisor (UP and C-GIS)

(Professional Registration SAGC GPr GISc0091)

Contact Details upon Request