



COMPANY PORTFOLIO

Proudly Serving the Eastern Cape since 1905

PROFESSIONAL LAND SURVEYORS
TOPOGRAPHICAL & ENGINEERING SURVEYORS
3D LASER SCANNING AND DATA MODELLING
SECTIONAL TITLE PRACTITIONERS
MEDIATION AND DISPUTE RESOLUTION

NPM GEOMATICS Inc.

Offices in East London, Port Elizabeth & Port St Johns

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Table of Contents

. Introduction to the Company - Proudly Eastern Cape since 1905.....	5
1. Origins and Background.....	5
2. Company Structure & Organogram.....	5
3. Office.....	6
4. Strategic Focus.....	6
4.1. Vision.....	6
4.2. Mission.....	6
4.3. Purpose.....	6
4.4. Commitment to Excellence.....	6
4.5. Health and Safety.....	6
4.6. Quality Control.....	6
4.7. NPM Development Programme for In-Service-Training and Articled Graduates.....	6
. Ownership Profile.....	7
. Transformation and BBBEE Status.....	7
. Services Offered.....	7
1. Surveying.....	8
1.1. Human Settlement's Surveys.....	8
1.2. Topographical Surveys.....	8
1.3. Road & Pipeline Strip Surveys.....	8
1.4. 3D Laser Scanning and Modelling.....	8
1.5. Setting-Out Surveys.....	9
1.6. Control, Engineering & Monitoring Surveys.....	9
1.7. Hydrographic Surveys.....	9
1.8. Cadastral Surveys.....	9
1.9. Sectional Title Surveys.....	10
1.10. Aerial, Lidar and Drone Surveys.....	10
2. Dispute Resolution & Commercial Mediation.....	10
3. GIS Consulting and data capture.....	10
4. Land Reform.....	10
5. Cadastral and Land-Legal Consulting.....	10
. Training, Empowerment, and Corporate Social Investment.....	11
1. Voluntary Work.....	11
. Strategic Partnerships & Working Relationships.....	11
. Introduction to the Directors.....	12
1. Bongzi Baninzi Pr.L (SA).....	12
2. Colin Davies Pr.L (SA).....	12
3. André van Niekerk Pr.L (SA).....	13
4. Kayleen Jordaan Pr.L (SA) - (Associate).....	13
. Introduction to Professional Staff.....	13
1. Charles Battle Pr.L (SA).....	13
. Introduction to Technical Surveyors.....	14
1. Petros Khumalo S (SA).....	14
2. Mutsa Musekiwa S (SA).....	14

- 3. Senzo Ntuli ST (SA)..... 14
- . Professional Memberships and Affiliations..... 14
- . Company Details..... 15
- . Resources..... 15
 - 1. Survey Equipment (replacement cost at R5.4m)..... 15
 - 2. Computers (replacement cost R225,000)..... 15
 - 3. Software (replacement cost R1.1m)..... 15
 - 4. Vehicles..... 16
- . ANNEXURE A..... 17
- Overview of Current & Completed Projects..... 17
 - Township Development Survey Projects..... 17
 - GIS and Land Management Projects..... 19

Introduction to the Company - Proudly Eastern Cape since 1905

1. Origins and Background

NPM Geomatics is a multi-lingual, multi-cultural, multi-racial, multi-generational and Proudly Eastern Cape Company. We celebrate our diversity. We speak 5 mother tongues, identify with 6 cultures, represent 3 racial groupings and the company leadership includes 2 women, comprising 50% of the decision making.

The company has origins dating back to 1905 when the Horne brothers established their practice in Queenstown., and for many years practiced as Horne and Horne, later becoming Horne and Preston.

The firm changed its name to Nzelenzele Preston & Medcalf in 2000, becoming NPM Geomatics in 2007. In 2002, the company acquired the East London based firm Parking, Tomlinson and Partners (PTP).

The earliest record in the old leather bound notebook belonging to land surveyor Parkin is dated 1918. This book was used to keep records and notes of all surveys done in the various blocks and sections of old East London.

Since then the company has grown from a small country town practice into a well-respected and dynamic company serving the whole of the Eastern Cape Province and beyond.

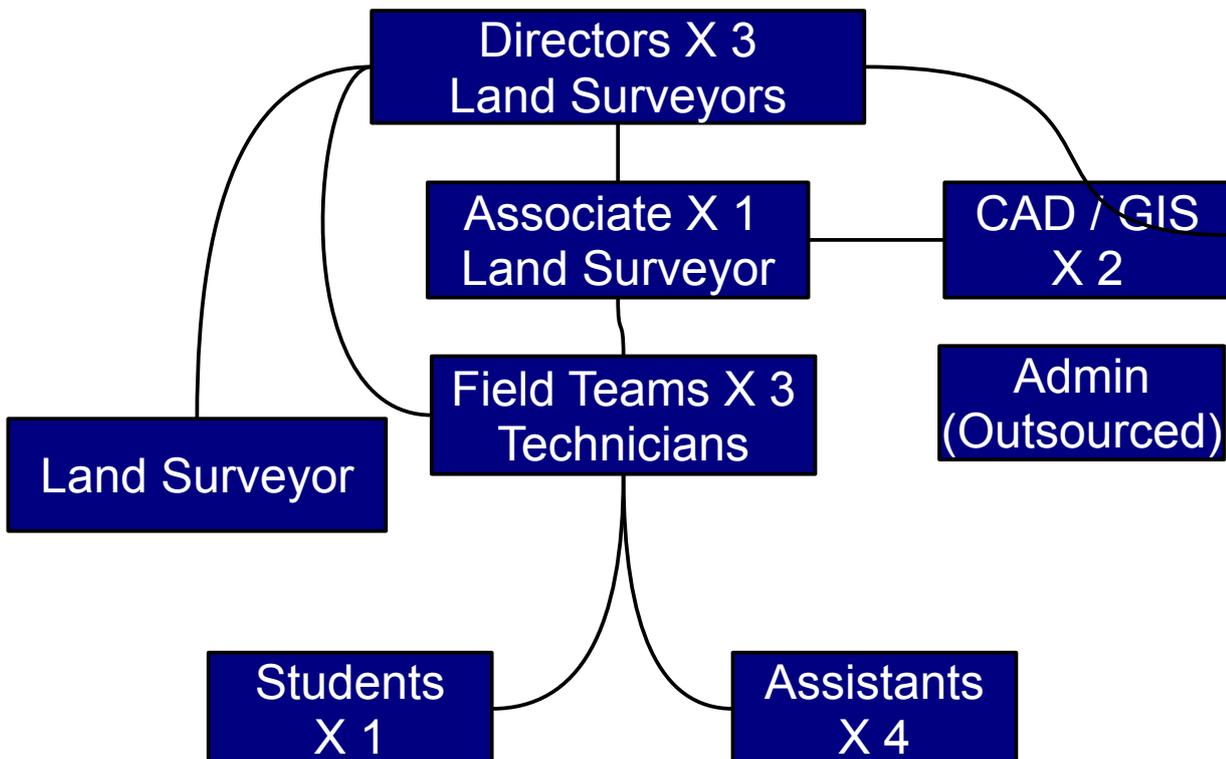
2. Company Structure & Organogram

NPM GEOMATICS is strategically structured as a combined Land Surveying, GIS & Spatial Information, and Alternative Dispute Resolution practice. The firm has a close working relationship with Ilizwe Planners, which has its origins in the original Town Planning Division of NPM Geomatics.

The structure of the company provides clients with a one-stop turn key solution for all their land development and planning requirements.

The firm’s schedule of clients is extensive and includes organizations, both large and small, in the private and public sector.

The figure below shows the relationships between the various operational components of the company, and the number of staff in each component.



3. Office

The company comprises a large staff component located in East London, consulting throughout the Eastern Cape Province and throughout South Africa as required.

Subsidiary offices are located in Port Elizabeth and Port St Johns.

4. Strategic Focus

4.1. Vision

Our vision is to be the Consultant and Service Provider of choice in the fields of Cadastral and Engineering Surveying, Sectional Title, Spatial Data Management, Mapping and Land Consulting in Africa.

4.2. Mission

Our mission is to pursue excellence for the benefit of our clients, staff, local communities, and business partners by offering outstanding service, comprehensive and complete survey data with efficient delivery, based on the highest standard of ethics, honesty, integrity & team-work.

4.3. Purpose

We understand that our purpose is to contribute to the sustainable social and economic development of our region through supporting Infrastructure and Housing Development, Improvement of Land Rights and Supply of Land Information, with consideration and respect for the natural and social environment. We therefore offer a wide range of services to help you achieve your land development and land management objectives.

4.4. Commitment to Excellence

The above Vision, Mission and Purpose statements have been in effect for the past 17 years. To date, the following key milestones have been reached in this regard:

NPM GEOMATICS employs, develops, recognises and rewards people who are committed to Ongoing Learning, Innovative Problem Solving, Team-Work, Professionalism and Service Excellence in the workplace and in their communities. As a result, we have adopted an aggressive approach to the development and empowerment of our people, with specific emphasis on previously disadvantaged individuals.

Our business processes are being aligned to world-class best practice, which results in increased value and benefit for our Clients, Staff, Community, Business Partners and Suppliers.

4.5. Health and Safety

NPM GEOMATICS has implemented a H&S system for survey work. All surveys are required to be undertaken in terms of this system. The H&S system includes regular review of Risk Assessments, Daily Toolbox Talks, and checks on equipment, vehicles and emergency contacts for the area of work.

4.6. Quality Control

NPM GEOMATICS ensures that all survey equipment and vehicles are regularly serviced and maintained in good working condition. Equipment and vehicles are serviced by authorised workshops, and genuine parts used.

Internal processes and systems are developed and fine tuned to improve office, processing and data management efficiencies.

4.7. NPM Development Programme for In-Service-Training and Articled Graduates

Since 1996, NPM has developed a proud tradition of providing top rate training and development of surveyors.

Starting initially with the intensive mentoring of a single survey technician, the NPM In-Service Programme is now compulsory for all new survey staff who join the company – regardless of experience or education.

The training programme provides a structured methodology for building on existing training or experience, whilst ensuring that each person fully understands the basic processes and techniques of field survey, data

processing and plan production.

The senior survey staff continue to improve themselves by being actively involved in the programme as first level mentors for new students who join the programme.

The programme has been so successful that NPM is regarded, by many students, as one of the best firms at which to gain solid, varied and comprehensive work experience.

Each year, NPM sends a suitable candidate to the [Find Your Voice](#) Leadership program run by the Rotary Club of Gately. This helps build and strengthen the leadership capacity within the company and the individuals who complete the course.

Ownership Profile

The following table reflects the ownership and shareholding structure. Each shareholder is an active Director in the company.

Name	ID No.	Citizenship	HDI	% Ownership
B Baninzi	920312 1103 080	South African	Yes	15
C J Davies	670120 5090 084	South African	No	50
A J van Niekerk	861130 5083 087	South African	No	35

Transformation and BBBEE Status

NPM Geomatics has a **Level 1** BBBEE Contributor status.

This has been achieved by setting and realising goals in the following areas:

1. Ownership.
2. Management Control.
3. Skills Development.
4. Supplier Development.
5. Social Economic Development.

NPM Geomatics is strongly committed to the transformation of our country built on the essential standards of quality, excellence and ethics, which form the foundation of a successful and prosperous society.

Services Offered

The wide range of expertise in the group arises from broad and diverse experience, including working throughout Southern and Central Africa. As a result, the portfolio of services that the company provides is comprehensive and includes the following:

NPM GEOMATICS offers the following services:

1. Traditional Surveying and Geomatics
 1. Human Settlements and General Plans
 2. Topographical Surveys
 3. Road and Pipeline Strip Surveys
 4. 3D Laser Scanning and Data Modelling
 5. Setting Out Surveys
 6. Control, Engineering and Monitoring Surveys
 7. Hydrographic Surveys

8. Cadastral Surveys
9. Sectional Title Surveys
10. Aerial, Lidar and Drone Surveys
2. Dispute Resolution and Commercial and Built Environment Mediation
3. GIS Consulting and Data Capture
4. Land Reform
5. Cadastral and Land-Legal Consulting

1. Surveying

1.1. Human Settlement's Surveys

The company has worked very closely with the Department of Human Settlements over the years, assisting with various forms of surveys which underpin the provision of housing, infrastructure in support of sustainable human settlements. The work we have done involves both conventional cadastral and topographical survey work, as well as more diverse projects.

During 2010 – 2011 NPM assisted with the verification of approximately 2,000 completed housing units. Following the verification project, NPM was involved in assessing approximately 1,600 housing units for purposes of rectification of defects.

Between 2009 and 2015, NPM was involved in the survey of over 9,000 rural homesteads for purposes of implementing the rural housing subsidy in the Alfred Nzo, Joe Gqabi and OR Tambo District Municipalities.

NPM has undertaken the relocation of township beacons on many projects, so as to enable the building of top structures.

1.2. Topographical Surveys

These surveys are required to depict the infrastructure, contours and natural features on a particular site/sites. They are generally used by planners and engineers in their designs for various types of developments. These surveys can be as small as a simple site survey for small building projects (houses, schools clinics etc) or at a much larger scale, for road upgrading, water reticulation projects, township development etc. It is not unusual for the company to be appointed to undertake large scale topographical surveys, in excess of 100 hectares.

NPM is geared to rapidly complete small and large scale topographical surveys, with up to 6 teams deployable on such projects. Since 2002, NPM has surveyed in excess of 950 schools and clinics in the Eastern Cape.

NPM has completed work on numerous large scale lidar and topographic surveys for various development purposes including housing, mining and sewer and water reticulation.

1.3. Road & Pipeline Strip Surveys

These surveys are required for design purposes of either the upgrading of an existing road or pipeline, or the building of a new road or pipe line. High specification roads are surveyed to the stringent TMH11 standard as published by SANRAL (SA National Roads Agency Limited).

In addition to undertaking the road and control surveys, NPM is also contracted to perform check surveys for strip surveys undertaken on SANRAL roads.

1.4. 3D Laser Scanning and Modelling

NPM acquired a high order Trimble TX8 scanner in late 2018.

3D Laser scanning is ideally suited to complex industrial applications, quarry and stockpile surveys for volume determination, sectional title, As-Built plans of large buildings, Heritage renovations, providing base data for Building Information Management Systems (BIMS)

The scanner has been used to scan and model bridges, floor levels in buildings, determine volumes in mines and measurement of sectional title projects.

1.5. Setting-Out Surveys

The building of infrastructure such as roads, buildings, sewer reticulation etc require the services of a surveyor to set out the precise positions and levels for the infrastructure to be built. The company's experience ranges from setting out of roads, sewer pipelines, water pipelines, dam walls and buildings, including the setting out of the Hemingways regional shopping mall, which has in excess of 1,000 column positions.

NPM was extensively involved in setting out the platforms and building positions for schools in the rural areas of OR Tambo District.

During the first half of 2012, NPM was involved in the setting out of a large Dam in the Coffee Bay area. We are routinely contracted to set out road alignments, building corners and platforms for contractors.

1.6. Control, Engineering & Monitoring Surveys

These surveys are needed where accurate control is required for future setting out of roads or buildings, or for the precise monitoring of the movement of dam walls, retaining walls, high-rise buildings etc.

NPM has worked on numerous high order surveys for industrial engineering projects where a high level of precision is required. These include crane rail surveys, conveyor surveys and precise setting out surveys.

NPM has been involved in precise crane rail surveys for the automotive construction industry, and the precise setting out of steel structure bolt positions for car manufacture assembly lines.

NPM has established, or refixed, more than 4000 NRB benchmarks to TMH11 standards for SANRAL on national and provincial roads since 2010.

NPM carried out the monitoring of the Gilwell Mall retaining walls during its construction.

NPM has been monitoring the movement of the road and bridge at the Langeni pass since 2010.

1.7. Hydrographic Surveys

Hydrographic surveys are carried out on dams or rivers where the profile of the dam or river bed is modelled for volume and design purposes. The surveys are carried out using a boat or kayak fitted with depth sounding equipment linked to a GPS receiver.

NPM completed the survey of 18 dams within a 6 week period during 2011. In the second half of 2012, NPM has been involved in the survey of the river bed profile of the Fish River near Port Alfred. This survey has been particularly challenging in terms of access, wildlife (hippo) and heavy rainfall during the survey campaign.

1.8. Cadastral Surveys

These surveys are required in order to define and record the extent of property ownership. They comprise the calculation of the positions of property boundaries, the physical demarcation of the property boundaries and the registration thereof in the office of the Surveyor General by means of a diagram or general plan.

NPM is specifically geared to undertake large scale cadastral surveys in excess of 1000 erven at a time.

The company has surveyed in excess of 20,000 erven over the past 10 years and subdivided more than 2,500 farms required for the the clearance of title deeds in order for SANRAL to take ownership of their road reserves.

The company has subdivided all the road reserves in SANRAL's Southern regional and has undertaken subdivision of road reserves as far a field as Lydenburg, T'Bantchu, Port Shepstone, Ladysmith and Plettenberg Bay. NPM is currently contracted to undertake approximately 600 further road related subdivisions for SANRAL.

NPM completed the survey of 948 erven at Motherwell in Port Elizabeth during the first half of 2012, and completed the preparation of General Plans for a large scale township development in Queenstown in 2017 and Elliot in 2016.

1.9. Sectional Title Surveys

These surveys are required when buildings are to be subdivided by means of sectional title. It involves the positioning of buildings relative to the property boundaries and the measurement and determining of the median line of each unit, which defines the extent of each section.

This information is recorded on a sectional plan, which is lodged with the Surveyor General and the Registrar of Deeds.

NPM has been involved in a number of large scale projects, including "Milkwoods" in Port Elizabeth and "The Beacon" in Beacon Bay.

In addition, NPM also undertakes the sectionalising of smaller residential and commercial buildings.

1.10. Aerial, Lidar and Drone Surveys

NPM Geomatics has established relationships with highly experienced and competent aerial, lidar and drone operators. NPM provides the control and ground verification for the surveys which are carried out using Lidar or Drone technology. High quality images of the site aid with planning and design.

2. Dispute Resolution & Commercial Mediation

Colin Davies is a built environment and commercial mediator, accredited by the Royal Institute of Chartered Surveyors (RICS).

In conjunction with other RICS accredited mediators, NPM Geomatics is able to assist clients to find an acceptable settlement for a range of commercial and development related disputes, without the need for costly, time-consuming litigation and potentially damaging public media.

3. GIS Consulting and data capture

Including institutional and management considerations, information and needs assessment, technological and data requirements, spatial data capture & quality control, and support & training.

NPM has successfully assisted the Ntabankulu and Emalahleni municipalities with essential land audit projects aimed at improving their access to land related data and information.

4. Land Reform

Formalisation of informal settlements, subdivisions of farms for land re-distribution as well as state survey of Administrative areas in the Former Transkei.

NPM has been involved in many land reform projects involving boundary disputes between respective parties.

5. Cadastral and Land-Legal Consulting

Including land assembly, land delivery, land management, status of the cadastre and the implications of the status of land on developments.

NPM is often requested to undertake land audits of properties over which proposed new infrastructure (pipe or road) is to be constructed or widened. This task provides valuable information for the design team to reduce the number of non-essential servitude or subdivision diagrams which need to be prepared post construction.

The senior professional land surveyors at NPM are regularly consulted on matters relating to the cadastral and land status of large scale development projects.

Training, Empowerment, and Corporate Social Investment

NPM Geomatics is dedicated to helping and empowering the previously disadvantaged by:

- Providing preferential educational opportunities, special training, bridging programmes, and mentorship for those whose selection will be based on merit.
- Providing preferential recruitment, training and advancement for the disadvantaged without compromise to professional excellence.

We aim to ensure that within the short to medium term a significant portion of our employees from disadvantaged background have advanced to exhibit a high degree of competence with appropriate experience.

NPM is proud to record that many of the students who train with the company have either found employment with the company once they have completed their studies, or have easily found employment once they leave NPM.

1. Voluntary Work

Colin Davies has been an active Rotarian since 2004, when he joined Rotary in Queenstown. Currently a member of the Rotary Club of Gately (www.rotarygately.co.za), Colin is a past president of Gately (2012/2013).

Gately Rotary has an impressive record of assisting under-privileged communities within the wider East London area. Projects focus on Literacy, Primary Health Care, Education, Water Provision, Alleviation of Hunger, care of the Aged and Youth development.

Colin is currently an active member of the Find Your Voice leadership project, run by the Rotary Club of Gately, for young business leaders between the ages of 25 – 35 years.

Bongi Baninzi is an active member of the Gately Rotaract Club, which is a Rotary partner programme for young adults below the age of 30.

The donation of time and resources by NPM Geomatics to the efforts of the Gately Rotary and Rotaract clubs exceed 2 work-days per month.

Kayleen Jordaan is actively involved in the promotion and development of Scouts within the East London region. The time and resources donation by NPM Geomatics to Scouts is approximately 1 full work-day per month.

Strategic Partnerships & Working Relationships

Land Reform

Relationships with role players in land reform are being established and developed in order to ensure that the land issues related to housing and road projects are addressed in a holistic manner.

National Scale Surveys

NPM Geomatics was part of the MANCO JV consortium who won the tender to undertake the cadastral subdivision of all the roads under the control of the South African Roads Agency in 2005. During the 3 year duration of the initial project NPM subdivided in excess of 2,500 farms. Subdivisions have covered most of the Eastern Cape and go as far afield as Newcastle, Thabanchu and Harding.

The MA JV won the tender in 2010 and again in 2015 and NPM has been actively involved in both road strip surveys, route service audits, control establishment and cadastral surveys for the SANRAL since then.

Spatial Data Management: GIS

GIS is an essential component of any Municipality. NPM GEOMATICS works closely with software developers, TGIS, based in Gauteng. As such, NPM GEOMATICS's primary area of focus is in assisting clients (municipalities in particular) implement cost effective and appropriate technology within their organisation.

NPM GEOMATICS advocates the use of the South African product, Planet GIS®, which offers excellent value for money. (see www.planetgis.co.za)

TGIS has developed a number of systems which can be used in conjunction with Planet®, designed to facilitate daily processes within local government, including:

- Integrated Project Planning and Performance Management Tool;
- Land Use Management System;
- Waste Management System;
- Cemetery Management Systems;
- Road Management System; and
- Valuation Management System.

NPM GEOMATICS is available to assist with the acquisition, implementation and maintenance of all the above systems.

Introduction to the Directors

The Directors are responsible for the overall strategic management of the firm.

1. Bongzi Baninzi Pr.L (SA)



Bongzi Baninzi has a Bachelors Degree in Land Surveying.

She is a Registered Professional Land Surveyor with the South African Geomatics Council.

After graduating, she was seconded to the company in 2015 by the Department of Rural Development and Land Reform, and completed her articles with NPM in January 2017.

She joined the firm as a Professional Land Surveyor in March 2017. Her primary focus is on cadastral surveys, and she is involved in running SANRAL related projects. Bongzi became a director of the company in 2018.

2. Colin Davies Pr.L (SA)



Colin Davies has a Bachelors Degree and Masters Degree in surveying and land management.

He is a Registered Professional Land Surveyor with the South African Geomatics Council. He is an accredited RICS Mediator for built environment and commercial dispute resolution.

Colin joined NPM Geomatics in 2002. In addition to professional consulting, project and office management, he is also responsible for staff development and the improvement of operational systems, processes and information management.

Prior to NPM he worked for 9 years in Local Government, gaining experience in

municipal systems, land-legal matters including subdivisions and rezoning of property, land reform initiatives, organisational management, GIS, digital mapping and general surveying.

He has been actively involved in the leadership of the former Institute of Professional Land Surveyors and now SA Geomatics Institute since 1996. He has been chairman of the Eastern Cape region for numerous terms.

3. André van Niekerk Pr.L (SA)



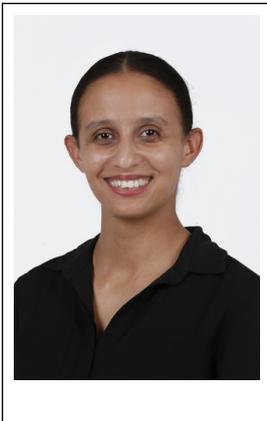
André has a Bachelors Degree in Land Surveying.

He is a Registered Professional Land Surveyor with the South African Council for Professional and Technical Surveyors, and a member of the East Cape Branch of the SA Geomatics Institute.

Andre has experience in cadastral, sectional title and engineering surveying. He is also experienced in international survey requirements, having undertaken survey projects in the Congo, Tanzania and Mozambique.

Andre joined the company in June 2012, with his primary focus on SANRAL related surveys and projects. André became a director of NPM Geomatics in 2015.

4. Kayleen Jordaan Pr.L (SA) - (Associate)



Kayleen Jordaan is a registered Professional Land Surveyor.

Kayleen started working with NPM Geomatics during her university vacations. After completing her degree, she started working as a Professional Land Surveyor in Training in 2017. She registered as a professional land surveyor in 2019 and is also registered as a Sectional Title practitioner.

Kayleen has gained experience in both cadastral and engineering work, specifically in sectional title and high precision monitoring of structures.

In October 2020 Kayleen was appointed as an Associate and as such has joined the Executive of the company.

Introduction to Professional Staff

1. Charles Battle Pr.L (SA)

Charles Battle is a registered Professional Land Surveyor.

Charles has experience in both cadastral and engineering projects. He has extensive experience in the former Transkei area, where he undertakes most of his work. Charles is based in Port St Johns.

Introduction to Technical Surveyors

1. Petros Khumalo S (SA)

Mr Khumalo joined NPM in May 2009 as a survey technician. Petros registered as a Survey Technician in 2010. He passed his exams for registration as a Surveyor in November 2014, and is registered as a Surveyor (S.SA).

2. Mutsa Musekiwa S (SA)

Mr Musekiwa joined the firm in July 2007 as a survey technician. Mutsa has passed is exam to register a Surveyor in 2016 and is now registered as a Surveyor S (SA) with the SA Geomatics Council

3. Senzo Ntuli ST (SA)

Mr Ntuli joined the firm in 2005 as a survey technician. Senzo is registered as a Survey Technician with the SA Council for Professional and Technical Surveyors.

Professional Memberships and Affiliations

The firm has a policy of encouraging its staff, and particularly management, to take an active role in the running of professional societies and institutions. Besides ensuring that we remain abreast of developments and events in our profession, it assists with ensuring that these important institutions play a meaningful role in the continued development of our country.

As a leader in our industry, NPM promotes and supports the membership of both statutory and voluntary industry organisations.

All professional and eligible technical staff are members of the Statutory **SA Geomatics Council**.

NPM professionals have also been actively involved in the voluntary **SA Geomatics Institute**. Cathy Mwanza and André van Niekerk have formerly held portfolios on the Branch executive, and Colin Davies has served extensively on the Branch and National executives during his professional career.

NPM is Registered with the following professional bodies and organisations:

- South African Geomatics Council ([SAGC](#)) – all eligible staff are registered in their respective categories and domains.
- South African Geomatics Institute ([SAGI](#))
- Geo-Information Society of Southern Africa - [GISSA](#)
- Border Kei Chamber of Commerce ([BKCOB](#))
- Provincial administrations, Metropolitan and district councils throughout the Eastern Cape.

Company Details

The following table provides various details regarding the company.

Company Name	NPM GEOMATICS				
Inc Number	2005/032909/21				
VAT Number	421 019 7713				
Director Details	ID Number	Registration No.	PDI	% ownership	Date ownership
Bongi Baninzi	920312 1103 080	PLS 1412	Y	15	2018
Colin Davies	670120 5090 084	PLS 0975	N	50	2009
André van Niekerk	861130 5083 087	PLS 1256	N	35	2015
Professional Indemnity					
Policy	Pridesure: P06426 12				
Amount	R3m per annum				
Bank account	08 264 754 2				
Bank	Standard				
Branch	Queenstown				
A/c type	Current				
Land Survey Statutory Body	SA Geomatics Council Surveyors				
Land Survey Institute	SAGI				
GIS Society	GISSA				

Resources

1. Survey Equipment (replacement cost at R5.4m)

- 11 x Trimble real time GPS systems
- 4 x Leica GS20 post processing GPS receivers
- 7 x Total Station Theodolites
- 5 x Leica Digital spirit levels
- 1 x Trimble TX8 Laser Scanner

2. Computers (replacement cost R225,000)

- 1 x Windows Server and 1 x Linux Server
- 1 x 3D modelling computer
- 18 x Desktop computers
- 12 Laptop computers – purchased by staff on a computer allowance scheme
- 2 x copier/printer/fax
- 1 x A0 plotter

3. Software (replacement cost R1.1m)

- Allycad and Civil Designer software
- MicroStation and Usmart mapping module
- Model Maker

- EasySurv
- Trimble Business Centre and Trimble Real Works

4. Vehicles

- NPM Geomatics owns the following fleet of vehicles which are used for survey:
 1. 1 x single cab 4x4 bakkies;
 2. 5 x double cab bakkies
 3. 1 x sedan
 4. 2 x double cab bakkies, owned by staff members under the company vehicle subsidy scheme.
-

ANNEXURE A

Overview of Current & Completed Projects

The following list of selected projects provides an indication of the capacity of NPM GEOMATICS Inc. to serve the needs of various clients.

Township Development Survey Projects

- ✓ Middle income township development of approximately 300 units in Mdantsane
- ✓ 748 erven, being the second phase of 5000 erven to be surveyed in Port Alfred
- ✓ Middle income township development of approximately 250 units near Igoda
- ✓ 3000 Erf Rathwick greenfields project in Queenstown
- ✓ 1117 Erf in-situ project in Lusikisiki
- ✓ 184 Erf greenfields middle income township in Mt Fletcher
- ✓ 670 Erf formalisation of Katlahong township in Mt Fletcher
- ✓ 659 Erf low income township in Lusikisiki
- ✓ 948 Erf low income township in Motherwell
- ✓ Survey of approximately 8800 rural housing units in the Alfred Nzo, Joe Gqabi and OR Tambo regions
- ✓ 1760 Erf Low Income in Mdantsane
- ✓ 950 Erf Low Income in Potsdam
- ✓ 650 Erf Low Income in Barkely East
- ✓ 1300 Erf Low Income in Ezibeleni
- ✓ 1500 Erf Low Income in Mlungisi
- ✓ 300 Erf Middle Income in Tsomo
- ✓ 1000 Erf Low Income in Sada
- ✓ 1851 Erf Low Income in Engcobo
- ✓ 550 Erf Low Income in Zola (Thorngill)
- ✓ 425 Erf High Income development in Port Alfred
- ✓ 105 Erf High Income for Bishop's Estate in Beacon Bay
- ✓ 400 Erf Low Income Housing in Tsomo
- ✓ 2500 Erf Low Income in Ugie
- ✓ 1000 Erf Low Income township in Indwe
- ✓ 1000 Erf Low Income township in Jamestown
- ✓ 1000 Erf Low Income township in Maclear
- ✓ 600 Erf Low Income township in Elliot
- ✓ 1200 Erf Low Income township in Cala
- ✓ 750 Erf middle income township in Queenstown
- ✓ 250 Erf low income township, being the first phase of 5000 erven to be surveyed in Port Alfred
- ✓ Mooiplaas Villages Survey: 143 Erven in Bholo
- ✓ Mooiplaas Villages Survey: 143 Erven in Situngu
- ✓ Mt Pleasant Settlement Portion of Farm 134 Adelaide – 200 Erven

Sectional Title Survey Projects

- ✓ Sectional Title survey of Milkwoods development, Phases 1 – 4, in Port Elizabeth
- ✓ Sectional Title Survey of various office block buildings in the East London CBD
- ✓ Sectional Title survey of The Beacon at Tripple Point in Beacon Bay
- ✓ Numerous Sectional Title schemes for the conversion of residential erven into sectional title.

Other Survey Projects – Topographical, 3D Laser Scanning, Setting Out and Hydrographic Surveys

- ✓ Service Audit surveys along SANRAL controlled roads for purposes of mapping the services with run in or through the road reserve.
- ✓ Bill-Board survey for sections of roads controlled by SANRAL to determine the size and position of major billboards.
- ✓ 3D Laser scanning of buildings for floor deflection determination.
- ✓ TMH11 Survey for the Buffalo City North West Express-way
- ✓ Sewer reticulation survey in Lusikisiki with Lidar survey
- ✓ 3D Laser scanning of bridges in Mdantsane and Coffee Bay.
- ✓ Topographical survey of the Mdantsane CBD for purposes of an urban renewal programme.
- ✓ Topographical surveys of large hospitals in East London, Mdantsane and Tsolo.
- ✓ Canal upgrade survey - Qamata irrigation scheme.
- ✓ Kirkwood Irrigation Scheme
- ✓ Bathurst water supply pipeline from Port Alfred to Bathurst
- ✓ High detail surveys for urban retail development in East London, Butterworth and Mthatha.
- ✓ KEI Rail survey : Photo control survey, establishment of permanent bench marks and facilitation of aerial mapping of 250km strip of 800m wide ortho-photo mapping
- ✓ Centre-line survey of 12,000 km of access roads for the Amathole DM
- ✓ Administrative Area surveys: Transkei
- ✓ Subdivision of farms affected by SANRAL roads in the Eastern Cape, Lydenburg, T'Bantchu, Port Shepstone, Ladysmith and Plettenberg Bay.: (approximately 2500 farm subdivisions) 2005-2008
- ✓ More than 6 road strip surveys in excess of 20km each, throughout the province, for the upgrading of trunk roads.
- ✓ Hydrographic survey of 18 dams in the Amathole region.
- ✓ TMH 11 Road surveys for SANRAL, plus check surveys on projects undertaken by other service providers.
- ✓ Established National Route benchmarks for in excess of 500km in the Eastern Cape.
- ✓ Setting out of the Hemmingways Mall over a 3 year period.
- ✓ Survey of 50 Schools for the DBSA project. (surveyed in a three week period).
- ✓ Monitoring of the bridge and road at the Langeni Pass.
- ✓ Monitoring Gilwell Mall retaining wall.
- ✓ Setting-out of a dam wall near Coffee Bay, numerous road alignments and over 20 school buildings during 2012.
- ✓ Topographical survey of in excess of 950 schools and clinics in the Eastern Cape.
- ✓ Definition of the Coastal Conservation Area on the Transkei Coast, plus the survey of the Lambasi Nature Reserve.
- ✓ Topographical survey for township road upgrades (Mdantsane, Scenery Park, Reeston – in excess of

150km of roads).

- ✓ Water pipeline surveys – various schemes in OR Tambo, Chris Hani and Amatole regions.
- ✓ Sewer reticulation as built survey – whole of Umtata.

GIS and Land Management Projects

- ✓ Land audit of encroachments on unregistered General Plans in the Amathole District
- ✓ Various land audits of properties affected by proposed road re-alignment and new pipeline infrastructure
- ✓ Ntabankulu Urban Area Land Audit
- ✓ Emalahleni Land Audit and integrated GIS with ongoing support.
- ✓ Various mapping projects for Spatial Development Frameworks, Housing Sector Plans, Integrated Development Plans undertaken by NPM Inc and NPM Planning CC.
- ✓ Supply of maps for local municipalities, developers and property professionals