



Kevin Mohangoo

GIS & DATA SPECIALIST

Details

KwaZulu- Natal, South Africa
084 223 2912
Kevin.kevzter@gmail.com

Skills

Computer & GIS Skills

Problem Solving

Experience

Leadership Skills

Technical Knowledge

Adaptability

Effective Time Management

Ability to Multitask

Ability to Work Under Pressure

Ability to Work in a Team

Profile

I have been employed in both the private and public sectors within Geographical Information Systems (GIS) and the ICT industry for over 23 years. I graduated with a BA in Environmental Management and I am currently completing my BSc (Hons) in Geography. The Key knowledge, skills and abilities (KSA) that I have developed throughout my career, enables me to be a significant asset to any organization.

Employment History

E M Training Institute (Pty) Ltd (*Services SETA skills development training provider*), Durban, South Africa

MAY 2021 — CURRENT

I am responsible for the institutes GIS skills courses, which includes full and part qualifications as well as unit standards, often with a focus on both theoretical concepts and hands-on practical skills. These training courses demonstrate through interactive hands-on practice how to use a GIS system to capture, store, manipulate, analyze, manage, and present spatial or geographic data. Coordination between technical and non-technical stakeholders, facilitating numerous skills programs. I also engage in several GIS conferences and programs to stay updated on the latest technologies and trends.

Key responsibilities

- Directing the planning and implementation of GIS processes, methodologies and systems within the institute
- Tutoring of GIS best practices and principles such as high precision spatial data production, spatial data analytics and modeling, spatial database design, management and maintenance (ArcGIS and QGIS)
- Administration and management of assessors and moderators
- Ensuring the training is up-to-date with the latest GIS technologies
- Assessing the requirements of industry to bridge pivotal skills gaps
- Assisting in the realignment of learning materials
- Preparation of documents and reports for the SETA external moderation
- Update and maintaining the programs, data, and tutorials necessary for training

Deputy Director (GIS) at National Department of Public Works and Infrastructure (DPW), Pretoria, South Africa

JULY 2017 — APRIL 2021

I was responsible for the DPW spatially enhanced Asset Register (Land & Buildings), along with its systems and data. Enhanced the productivity and efficiency of the GIS team via focused training and development efforts. Coordinated efficiently between technical and non-technical stakeholders, facilitating clear communication and numerous successful project completions. Engaging in numerous relevant GIS conferences and courses to stay updated on the newest GIS technologies and developments.

Key responsibilities

- Directing the planning and implementation of GIS processes, methodologies and systems within the department

- High precision spatial data production
- Advanced spatial data analytics and modeling
- Developing topology algorithms and models
- Spatial database design, management and maintenance
- Remote sensing analysis using multi-spectral satellite imagery
- Advanced spatial data editing, conversion and manipulation
- Advanced cartography & automated “bulk” map creation
- Mentoring of GIS staff to ensure competence, productivity and efficiency
- Planning and the supervision of GIS activities within the department
- Providing GIS support across Regions and several Public Works departments
- Authorizing of alterations to be undertaken on “live” spatial databases
- Ensuring accuracy and completeness of all spatial data
- Managing the key performance areas (KPA’s) of subordinates

Senior GIS Specialist at Data World Pty Ltd, Durban, South Africa

JANUARY 2000 — JUNE 2017

The positions I held include Senior GIS Specialist, Lead GIS Analyst and GIS Data Specialist. I was responsible for Spatial data maintenance, Spatial analysis, Remote sensing, Cartography (map creation), Spatial data manipulation as well as the re-projection and conversion of data between various formats. Responsible for delivering projects first time, on time and on budget. I managed the GIS team and also developed and implemented training programs to enhance employee skills and performance.

Key responsibilities

- Advanced Spatial Data Analytics and Modeling
- Spatial database design, management & maintenance
- Conversion of data to various formats
- Advanced Cartography & Large-Scale digital map production (Automated)
- Remote Sensing and Image Interpretation
- Creation of high precision spatial data
- Topology algorithms
- 3D Spatial Data Modeling
- Geo-referencing of aerial imagery
- Batch Geo-coding of bulk data
- Re-projecting of data to relevant Coordinate Reference Systems
- Utilization of “ArcGIS ModelBuilder” for automation of repetitive Geo-processing tasks
- “SQL Server Spatial” data migration, scripting and querying of data
- Effective management, training and mentoring of the GIS team to achieve organization and career objectives
- Formulation and updating of methods and standard operating procedures ensuring continuous improvement of processes and systems.

Education

Ba Environmental Management, University of South Africa (UNISA)

JANUARY 2013 — DECEMBER 2020

BSc (Hons) in Geography

JANUARY 2021 — CURRENT

Software Proficiency	Level
ESRI ArcGIS Suites (ArcMap, ArcGIS Pro, ArcGIS Online, ESRI StoryMaps, ArcInfo, ArcCatalog, ArcGIS Server, ArcGIS Enterprise, ArcSDE)	Advanced
QGIS (Quantum GIS)	Advanced
SQL Server Spatial	Advanced
PostgreSQL / PostGIS	Advanced
GeoServer	Advanced
GDAL/OGR	Advanced
OpenStreetMap	Advanced
Google Earth Pro	Advanced
Microsoft Office Suites	Advanced

Project Experience:

As my CV indicates, I have vast array of experience as a GIS Professional. I have participated in a variety of interesting projects that are too numerous to mention here, therefore I have only listed a few of the more notable projects below:

No:	Project
1	<p>Name of Project or Assignment: Buffalo City GIS Land Audit & Data Alignment</p> <p>Year: 2007</p> <p>Location: Durban, South Africa</p> <p>Client: Buffalo City Municipality</p> <p>Position: Senior GIS Analyst</p> <p>Duties Performed: Land Audit – Consolidation and aligning of deeds office data (ownership) and surveyor general spatial data to compile the Registered Property Boundary of land parcels. Correcting incomplete data and providing an exception list of errors. Remote sensing. Geo-coding of addresses.</p>

2	<p>Name of Project or Assignment: DRDLR - Data Analysis & Data Alignment</p> <p>Year: 2016</p> <p>Location: Johannesburg</p> <p>Client: Department of Rural Development and Land Reform</p> <p>Position Held: Senior GIS Analyst</p> <p>Duties Performed: Re-projection and manipulating of spatial data and remote sensing data, Data Analysis and data alignment of Settlement Data that was captured on the field. Providing an exception list of data errors.</p>
3	<p>Name of Project or Assignment: Centre for Affordable Housing Finance Data</p> <p>Year: 2015</p> <p>Location: Johannesburg</p> <p>Client: Finmark</p> <p>Position Held: GIS Data Specialist</p> <p>Duties Performed: Creating a database for consolidating Tableau, Lightstone and Statistics SA SuperCross demographical data using SQL Server Spatial and advanced spatial analysis.</p>
4	<p>Name of Project or Assignment: Census Maps (Cartography)</p> <p>Year: 2014</p> <p>Location: Johannesburg, South Africa</p> <p>Client: Municipal Demarcation Board</p> <p>Position Held: Senior GIS Analyst</p> <p>Duties Performed: Acquisition of GIS data, Re-projecting of spatial & remote sensing data and managing the team that created A3 maps for the national census.</p>
5	<p>Name of Project or Assignment: GIS Data Auditing & Data Alignment</p> <p>Year: 2012 - 2014</p> <p>Location: Johannesburg, South Africa</p> <p>Client: Buffalo City Municipality (BCMM)</p> <p>Position Held: Senior GIS Specialist</p> <p>Duties Performed: Creation of a GIS Data Model for automating auditing of BCMM GIS Cadastral via creation of topology rules to validate the spatial integrity of cadastral data. Generating a layer of spatial errors utilising automated Topology creation. Generating report of exceptions from Town Planning, Building Plans, Deeds data (ownership) and Accounts data by reconciling with cadastral layer using SQL server queries. Providing a bi-monthly exception report of data errors.</p>
6	<p>Name of Project or Assignment: WESSA Trails Cartography</p> <p>Year: 2009</p> <p>Location: Johannesburg, South Africa</p> <p>Client: Wildlife Environment Society of South Africa (WESSA)</p>

	<p>Position Held: Senior GIS Analyst</p> <p>Duties Performed: Creating of A0 maps for the organisation to denote specified areas and trails. Creating spatial data layers from raw GPS field collected data & aerial imagery.</p>
7	<p>Project or Assignment: GIS Data Land Audit & Data Alignment</p> <p>Year: 2007</p> <p>Location: Durban, South Africa</p> <p>Client: Buffalo City Municipality</p> <p>Position Held: Senior GIS Analyst</p> <p>Duties Performed: Land Audit – Consolidation of deeds data and surveyor general spatial data to create an updated registered cadastral layer of land parcels. Capturing of missing surveyor general data and providing an exception list of errors.</p>
8	<p>Name of Project or Assignment: GIS Support & Data Alignment</p> <p>Year: 2006</p> <p>Location: Pietermaritzburg, South Africa</p> <p>Client: Department of Traditional and Local Government Affairs</p> <p>Position Held: GIS Analyst & Data Specialist</p> <p>Duties Performed: Source, verify and create base GIS layers for District Municipalities as well as source and compile a database of Deeds data (ownership) from the deeds registry.</p>
9	<p>Name of Project or Assignment: GIS Land Audit & Data Alignment</p> <p>Year: 2004</p> <p>Location: Durban, South Africa</p> <p>Client: Hibiscus Coast Municipality</p> <p>Position Held: GIS Technician</p> <p>Duties Performed: Supervising & overseeing of the creation of the Registered property boundary layer and the quality assurance of captured spatial Data.</p>
10	<p>Name of Project or Assignment: Municipal Boundary Demarcation –2000 Elections & Municipal Boundary Assessment</p> <p>Year: 2000</p> <p>Location: Durban, South Africa</p> <p>Client: Municipal Demarcation Board</p> <p>Position Held: Junior GIS Technician</p> <p>Duties Performed: Municipal Boundary alignment, Spatial Data Capture and QA, printing of A3 maps for enumerators to utilise in the field.</p>

Motivation

My employment over the years has exposed me to advancements in GIS technologies, techniques and tools. I also possess excellent problem solving skills as well as the ability and patience to mentor and train technical staff in new emerging GIS technologies and systems to ensure competence within the organization. I have the ability to work individually or in a group and under pressure. I have excellent health, I have suffered no serious illness or injury nor am I receiving any medical treatment at this time.

References:

Contact Person: Mrs Eurika Maharaj

Name of Organization: E M Training Institute

Position: CEO

Contact Details: 072 571 5300

Contact Person: Mr Udit Chauhan

Name of Organization: Data World

Position: Operations Manager

Contact Details: 082 538 9019

Contact Person: Mr Siboniso Sokhela

Name of Organization: National Department of Public Works

Position: Chief Director - REIRS Branch

Contact Details: (012) 406 2043

Mobile: 082 723 6385