

**CURRICULUM VITAE  
DAWIE JANSEN VAN VUUREN**

**PERSONAL INFORMATION AND CONTACT DETAILS**

Name:	Isak Dawid Jansen van Vuuren
Date of birth:	1960-07-07
Marital status:	Married
Nationality:	South African
Profession (specialisation):	Professional GISc Practitioner
Company:	MetroGIS (Pty) Ltd
Years with firm:	17 years
Position:	Managing Director
Experience:	23 years
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**KEY QUALIFICATIONS AND EXPERIENCE**

**Primary function**

The application of Geo-Spatial Information Science (GIS) in Environmental Management, Development Planning And Disaster Risk Management. Specialising in impact assessments, vulnerability / sensitivity analysis and remote sensing.

**Experience and expertise**

- Data sourcing and acquisition;
- Data capture;
- Data processing, conversion, and transfer;
- Geospatial database development, implementation and maintenance;
- Spatial analysis;
- Digital terrain modeling;
- Image processing;
- Remote sensing;
- Map production, display, queries and reporting;
- Disaster risk assessment;
- Spatial development management;
- Environmental management;
- Environmental impact assessment (Visual Impact Assessment);
- Socio-economic surveys;
- Public Participation;
- Project management;
- Database applications development;
- Research.

**Technological (software) expertise and experience**

- ArcGIS
- ArcView
- ArcGIS Spatial Analyst
- PlanetGIS
- ReGIS
- ReMap
- Autocad
- Autocad Map
- Visual Basic;
- HTML
- Microsoft suite (including Microsoft Word, Excel, Access, etc.)

## PROFESSIONAL AFFILIATIONS & ASSOCIATIONS

*Professional Geo-Information Sciences (GISc) Practitioner* registered with The South African Council for Professional and Technical Surveyors (PLATO). *Membership number: PGP0101*

Associate staff member. African Centre for Disaster Studies, North-West University, Potchefstroom.

## WORK EXPERIENCE/EMPLOYMENT DETAILS

### High School Rob Ferreira (White River)

Period: 1/1985 - 12/1987

Position: Geography Teacher

### Infraplan Town and Regional Planners (Nelspruit, Johannesburg)

Period: 1/1988 - 4/1992

Position: Town Planning Assistant

### Midrand Town Council (Midrand)

Period: 4/1992 - 6/1995

Position: GIS Manager

### Krugersdorp Town Council (Krugersdorp)

Period: 7/1995 - 8/1995

Position: GIS Manager

### MetroGIS (Pty) Ltd

Period: 9/1995 - to date

Position: Managing Director

## EDUCATION / QUALIFICATIONS

BA-Ed (1982) University of Pretoria

BA (Hons) (1988) UNISA (Geography)

M (T&RP) (1994) University of Pretoria (GIS Specialisation)

Ph D Candidate Development Management. North-West University, Potchefstroom Campus.

## LANGUAGES

	Reading	Writing	Speaking
Afrikaans	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
German	Moderate	Moderate	Moderate

## PROFESSIONAL EXPERIENCE

### Development planning (1988 – 1992)

Various projects, involving:

- Township establishment;
- Rezoning;
- Subdivision of land;
- Regional Development Plans;
- Socio-Economic Surveys

### Geographic Information System development (1992 – 1995)

GIS development for various municipalities:

- Midrand,

- Krugersdorp,
- Lethabong (Edenvale),
- Nelspruit,
- Brits,
- Malelane,
- Mogalakwena

### Geo-Spatial Information Science Consultancy (1995 – present)

#### List of selected projects undertaken since 2000:

<b>GIS: System Design &amp; Development</b>	
Municipal GIS:	
<i>Nelspruit Town Council - GIS design &amp; implementation</i>	1999 - 2000
<i>Jeffreys Bay Municipality - GIS design &amp; implementation</i>	1999 - 2000
<i>Theewaterskloof Integration of Digital Aerial Photography with existing GIS data</i>	2002
<i>Mogalakwena Municipality - GIS design &amp; implementation</i>	2004-2005
<i>Tshwane Metropolitan Municipality: Outdoor Advertising Control System</i>	2003 - 2005
<i>Tshwane Metropolitan Municipality: Noise Zone Database and GIS Viewer</i>	2005-2006
<i>Mbombela Municipality: Outdoor Advertising Control System</i>	2007
<i>Mbombela Municipality: Traffic Signs Management System</i>	2008
Project Management:	
<i>CMIP: National Dept of Provincial and Local Government</i>	2000 - 2001
<i>CMIP - North West Dept of Developmental Planning, Local Government &amp; Housing</i>	2001 - 2003
<i>GIS Basemap Update and Data Integration:- Greater Pretoria Metropolitan Council</i>	2001
Research Projects:	
<i>Maguga Dam Socio-Economic Study: Database Design and System Development for Data-Input and Statistical Reports</i>	2000
<i>Mbombela Business Survey: - Integrated Website Development</i>	2003
<i>Integrating GIS functions with DM Research Tools</i>	2005 - 2006
<b>Specialised GIS Applications for Environmental Management</b>	
<b>Environmental Management Framework (EMF):</b>	
<i>Alexandra Renewal Project</i>	2001
<i>Rustenburg Municipality</i>	2003
<i>Ekurhuleni Metropolitan Municipality (Northern Service Delivery Region)</i>	2004
<i>Johannesburg Metropolitan Municipality (Kyalami / Modderfontein EMF)</i>	2006
<i>Ekurhuleni Metropolitan Municipality (Southern &amp; Eastern Service Delivery Region)</i>	2007
<i>Department of Environmental Affairs &amp; Tourism: Garden Route</i>	2008
<i>Department of Environmental Affairs &amp; Tourism: Waterberg District Municipality</i>	2010
<i>KZN Department of Agriculture and Environmental Affairs: Richards Bay Port &amp; IDZ</i>	2011
<b>Specialised GIS Applications for Disaster Management</b>	
<i>GIS Services - Y2K Disaster Management Center, National Department of Local Government</i>	1999 - 2000
<i>Disaster Management System: Bojanala District Municipality</i>	2004
<i>Disaster Management Plan: Hibiscus Local Municipality</i>	2005
<i>Disaster Management System for Metropolitan Municipalities</i>	2004-2006
<i>Tshwane Metropolitan Municipality.</i>	2005
<i>Nelson Mandela Bay Metropolitan Municipality.</i>	2006
<i>GIS Based Tool for Disaster Risk Assessment - Amathole District Municipality</i>	2006

GIS Based Disaster Management System - Rustenburg Municipality	2008
Participatory GIS for Disaster Risk Assessments - African Center for Disaster Studies	ongoing
<b>Specialised GIS Applications for Developmental Planning</b>	
Integrated Town Planning Scheme Management System	
<i>Lethabong Metropolitan Substructure</i>	1998 - 1999
<i>Nelspruit Town Council</i>	1999
<i>Midrand Metropolitan Substructure</i>	2001
Data Management System for Socio-Economic Surveys	
<i>Maguga Dam Network - Swaziland</i>	2000
Upgrading of Town Planning Scheme & Integration with GIS	2002
<i>Lekwa Local Municipality</i>	
Outdoor Advertising Control Scheme - Spatial Decision Support System	2002
<i>Tshwane Metropolitan Municipality</i>	
Updating and Integration of Town Planning Schemes	2003
<i>Tshwane Metropolitan Municipality</i>	
Vacant Land Audit & Data Integration	2004
<i>Tshwane Metropolitan Municipality</i>	
Spatial Development Frameworks	2005 - ongoing
<i>Various in Ekurhuleni, Greater Johannesburg, Tshwane</i>	
<b>Environmental Management Plans</b>	
Schmidtsdrift (new Diamond Corporation)	2003
Namaqualand Mining (De Beers)	2004
Gauteng Open Space Project (GOSP)	2000
<i>GIS-based open space planning</i>	
Gauteng Communications Network Study	2001 - 2002
<i>Spatial Analysis for the establishment of Control Zones</i>	
Gauteng Industrial Survey	2002 / 2003
<i>Establishment of buffer zones around noxious industries</i>	
<b>Specialist Studies involving GIS</b>	
Visual Impact Analysis for Cellphone Masts:- Siemens SA	1999 - 2000
Visual Impact & Shadow Analysis for a Gypsum Tailings Dam:- Jarrod Ball & Associates	2000
High Mast Viewshed Analysis:- Telkom SA	2001
GIS-based Location Analysis for International Carbon Sinks Project:- Nathan Associates	2001
Limpopo Transfrontier Park: KNP & Mozambique	2003
<i>GPS, GIS based aerial survey &amp; Mapping</i>	
Coega Hazardous Waste Processing Facility	2004
<i>Visual Impact Assessment &amp; Site Ranking</i>	
Visual Impact Assessment for a Power Station and Transmission Lines (Various)	2005-2006
Visual Impact Assessment for a Solar Thermal Plant, Northern Cape Province	2005-2006
Disaster Risk Assessment: Amathole District Municipality, Eastern Cape	2006
Visual Impact Assessment for Heavy Minerals Sands - Tormin, West Coast	2007
Visual Impact Assessment for Heavy Minerals Sands - Xolobeni, Pondoland	2007
Geographical Areas in terms of NEMA Regulations - Gauteng	2007
Visual Impact Assessment for Pumped Storage Scheme - Steelpoort, Northern Province	2008
Disaster Risk Assessment: Fezile Dabi District Municipality, Free State	2008
Disaster Risk Assessment: Dr Kenneth Kaunda District Municipality, North-West Province	2009
Veld Fire Impact Assessment: Dr Kenneth Kaunda District Municipality, North-West Province	2010

Strategic Environmental Framework for Wind Energy Projects, South Africa	2011
Strategic Environmental Assessment & GIS Viewer for Wind Energy Projects, Western Cape Province	2011
Visual Impact Assessments for Wind & Solar Energy Projects - Various	2007 - ongoing
<b>Website Development incorporating GIS</b>	
CMIP - National Dept of Provincial and Local Government	2001
CMIP - North West Dept of Developmental Planning, Local Government & Housing	2003
Mbombela Business Survey: - Integrated Website Development	2003
Swazi Extreme Adventure Race - Teams Progress Mapping: Experimental Website	2004
National Waste Management Information System - Writing Specifications	2005
<b>GIS Based Data Products for Commercial Use</b>	
"Development Initiatives" - indicating trends in spatial development in metropolitan areas	2004 - ongoing