

Name of Staff: Friedrich Wilhelm Brandt Schoeman

Profession: GIS and Remote Sensing Specialist

Date of Birth: 23th May 1979

Years with Consultant/ Entity: < 1

Nationality: South African

Membership in Professional Societies

- Member of the Geo-Information Society of South Africa (GISSA)
- Member of South African Council for Professional and Technical Surveyors(PLATO) - Professional in Training

Detailed Task Assigned

- GIS and Geomatics training.
- All aspects of GIS training and Land Use.
- Review current situation in geospatial data sets available in districts.
- Prepare training plan and related training materials for GIS/LUP training
- Prepare plan to make GIS activities sustainable using free GIS software.

Key Qualifications

None

Education

Institution: University of Pretoria, South Africa

Degree Obtained (Year): B.Sc. GeoInformatics (2002)

B.Sc. (Hons) GeoInformatics (2006)

Institution: Damelin College

Qualification Obtained: Certificate - Fundamentals of Visual Basic (2003)

Employment Record:

From: April 2012 – present

Position Held: Freelance Contractor

Current Project Involvement:

Company: *GeoTerraImage* Project: Spot Building Count (SBC) 2011

The SBC dataset is a point-based land-use inventory of each building or structure in SA mapped from Spot 5 imagery. My responsibilities include project management, quality control and quality assurance.

Company: *SiQ* Project: Cape Water

Georeferencing of foul sewerage and water supply plans to be used in digitizing the water supply and sewerage system in Cape Town Municipality

From: May 2006 – March 2012
Employer: **GeoTerraImage**
Position: GIS & Remote Sensing Applications Specialist

Responsibilities & Duties:

Project management	Data acquisition & production
Product management	Data analysis & presentation
Product development	Software support and management
Client liaison and user requirement analysis	Software support and management
Data quality control & assurance	Map production

In addition to the managerial activities performed, the application of GIS and Remote sensing skills was very much part of the daily tasks. The projects that were worked on, in varying roles, covers a vast spectrum. Listed below are a few:

- Creating urban and rural land use datasets and interrogating these in order to create derived products such as a “change potential” indicator
- Production of land-cover products, from small areas to provincial datasets
- Creating datasets used by telecoms companies for radio frequency propagation planning throughout Africa
- Development of a land-cover change dataset for the FAO of South Africa and deriving a change in woodlands cover for the Department of Forestry
- The creation of agricultural field boundary data for the entire country to assist the National Crop Estimates Committee in their mandate
- Map production in support of market research surveys and map series development for land-cover products
- Assessment of the Nation Wetlands dataset and contributing to a large improvement of the National Wetlands Map for SANBI
- Crop type classification using satellite imagery
- Identifying land suitable for agricultural development
- Creating a datasets used for Radio frequency propagation by Telecoms companies throughout Africa
- Creating datasets that combine land-cover and population estimates for various African countries

From: May 2003 – April 2006

Employer: Agricultural Research Council – Institute for Soil, Climate and Water

Position held: Junior Researcher

- Project Management
- Client liaison and user requirements analysis
- Organising of workshops to gather user needs and facilitate user involvement in process development
- Database design and specifications development – as part of AGIS (Agricultural Geo-referenced Information System: www.agis.agric.za)
- Systems design and specifications development – as part of AGIS
- Software testing and error reporting
- System development (Visual Basic) – standalone applications
- Map production
- Data acquisition
- Data analysis

Language

<i>Language</i>	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
Afrikaans	Excellent	Excellent	Excellent
English	Good	Excellent	Good