



CURRICULUM VITAE

Company Name	Lidwala Consulting Engineers (SA)
Date of birth	Katie Sassenberg 1976-06-02
Profession	GIS Specilaist
Position	GIS Specilaist
Start date with LIDWALA	May 2009 - Permanent full-time staff member
Relevant experience	19 years

Qualifications

- National Senior Certificate – 1989 – Technical high school.
 - Courses Attended:
 - ArcView 9 Course, Midrand, 2003: ESRI (Environmental Systems Research Institute), GIMS (Geographic Information Management Systems)
 - ArcIMS Course. Midrand, 2004: ESRI (Environmental Systems Research Institute), GIMS (Geographic Information Management Systems)
 - Caddie Course. Midrand, 1993: ADVANCED COMPUTER SOLUTIONS (PTY) LTD
 - Caddie Professional Course. Midrand, 1994: ADVANCED COMPUTER SOLUTIONS (PTY) LTD
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Specialisation

- Design and implementation of corporate GIS database
 - Database Design and Administration
 - Spatial data capturing, analysing, maintenance and management of complex geo-database systems.
 - Skills training
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Career summary

- May 2009 – Present, **LIDWALA CONSULTING ENGINEERS** (www.lidwala.com): GIS Specialist
- Aug 2005 – May 2009, **ENVIROGIS Pty Ltd** (www.envirogis.co.za), (Environmental Solutions): GIS Technician. (Consulting & training).
- May 1996 – Aug 2005, **NETGROUP SA (Pty) Ltd** (www.netgroup.co.za) – Consulting Electrical Engineers & GIS mapping: GIS Technician. (GIS & Cad Draghting)
- Jan 1992 – May 1996, **BIRD MACHINES (PTY) LTD** (www.birdmachines.co.za) (Mining Equipment Suppliers): Draughts person
- Jan 1990 – June 1991, **KEEVE STEYN CIVIL ENGINEERS** (www.goda.co.za): Draughts person

Work Experience

- Lidwala: GIS Specialist working on the Road Asset Management System (RAMS) for Mpumalanga Department of Roads and Transport, including GIS Data maintenance, interrogation and management together with creating customised maps and production as well as creating Open Geospatial Consortium (OGC) compliant Styled Layer Descriptor (SLD) schemas for the Web Map Service (WMS) element of the RAMS.
- Lidwala: Wetland delineation and riparian habitats of forestry plantations across Mpumalanga, Limpopo and Kwazulu-Natal. The essence of this project is to propose a structured wetland and riparian delineation procedure. Field methodology is outlined together with a supportive post-reporting process that includes spatial data (GPS and GIS) to accurately identify and delineate the spatial extent of wetland and riparian habitats with the intention of preventing past and future commercial afforestation transgressions occurring in sensitive areas.
- SAFCOL, I was involved with the development of a GIS to do a land capability study. The objective of the study was to determine the afforestation potential of available land in a buffer strip adjacent to SAFCOL's plantations & develop out grower scheme models to govern the afforestation. Analyses (financial & other) were done to determine the feasibility and most preferred structure to establish and manage the proposed Out Grower Scheme.
- SAFCOL: a study to determine the most effective way to apply Forestry waste for the production of Green Energy (Electricity). For this project we had to identify the different sources of Forestry Waste within a 100km radius from Sabie (Mpumalanga) and determine quantum and availability. We had to describe and motivate the method used to identify sources and estimate volumes of waste. A cost analyses was provided to determine if a delivered cost per ton for Forestry Waste over a 100km radius is feasible. This project was aimed at Sabie – Mpumalanga as a case study, to test the concept,
- Envirogis: I was a consulting GIS Technician for York Timbers, Komatiland Forest and SAFCOL (South African Forestry Company Limited). At these respective companies I was part of a team in developing Client Corporate Geo-databases making use of ArcSDE, Oracle and ArcIMS. After implementing the GIS I was responsible for the consulting and maintenance of the Corporate GIS.
- SAFCOL: I was involved in a Timber flow project and was responsible for the collection, analysis and categorisation of industry and field data relating to fibre-flow from Provinces, areas and catchments to the processing plants. I was further involved in the development of a model based on this data to draw required information (to calculate the current standing volume, and also the current available volume).
- Netgroup: I was involved in the Emalahleni Local Municipality feasibility study regarding a Utilities Network where I had to gather and combine existing hardcopy data, field data and electronic data to compile a turnkey feasibility GIS.
- Netgroup: the Mbombela land use management (spatial framework) System for Local Municipalities. I was part of a team to create a personal spatial database & responsible for the development & management of new, existing and field data.