

# CURRICULUM VITAE

## Lourens Martinus du Plessis

*MetroGIS (Pty) Ltd.*

*Director*

### SKILLS BASE AND CORE COMPETENCIES

- Data Sourcing and Acquisition
- Data Capture
- Data Evaluation
- Data Conversion and Transfer
- GIS Database Development, Implementation and Maintenance
- Spatial Analysis (Visibility, Slope, Aspect, etc.)
- Digital Elevation Modeling
- Terrain Evaluation
- Image Processing
- Visual Impact Assessment and Impact Management
- Environmental Management
- Decision Support Systems Interface Development
- Project Management
- Map Production, Display, Queries and Reporting
- Environmental Sciences Expertise
- Process Development
- Arc/Info, ArcGIS, ArcView and PlanetGIS software
- Various GIS support software packages
- Range of Microsoft standard applications

### TERTIARY EDUCATION

Degree: BA (University of Pretoria) Geography and Anthropology (Majors), 1993  
Other Subjects: Archaeology, Philosophy and Political Science

### EMPLOYMENT HISTORY

**GisLAB CC** (Geographic Information Systems Laboratory - University of Pretoria)

Period: 4/1990 - 9/1997

Position: Member/Project Manager

**GISBS** (Geographic Information Systems Business Solutions - Q Data Consulting)

Period: 10/1997 - 10/1999

Position: Project Manager

**MetroGIS (Pty) Ltd.**

Period: 11/1999 - to date

Position: Director/Project Manager

### SELECTED RELEVANT PROJECT EXPERIENCE

- Proposed Atlantis Open Cycle Gas Turbine power station VIA
- Kynoch Gypsum Tailings dam extension VIA
- N1 Western Bypass Shell service station VIA
- Coega regional hazardous waste processing facility VIA
- Robinson Deep landfill extension VIA
- Hazardous waste blending platform VIA
- Mercury-Ferrum-Garona transmission line integration VIA
- Matimba B proposed coal-fired power station VIA
- Concentrating Solar Power (CSP) plant VIA
- Zeus to Mercury transmission line (comparative viewshed analyses)
- Mmamabula (Botswana) transmission line and power station viewshed analyses
- Petronet new multi-products pipeline VIA

## **CURRICULUM VITAE**

### **IAIN PATON**

*Outeniqua Geotechnical Services cc*

*Engineering Geologist*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Five (5) years experience in construction with an additional three (3) years specialist consulting in Engineering Geology.
- Core experience lies in undertaking Geotechnical Site Investigations for private and public residential developments, commercial, industrial & infrastructural developments. Other fields of expertise include slope stability/failure studies, foundation investigations, geotechnical and civil engineering materials testing, specialist geological consultant for EIAs.
- Professional Natural Scientist (Pr.Sci.Nat. # 400236/07).
- Member of the South African Institute of Engineering Geologists (SAIEG).
- Associate Member of the South African Institute of Civil Engineering (SAICE).

#### **TERTIARY EDUCATION**

- Bachelor of Science with Honours in Geology (Rhodes University).
- Various postgraduate courses in Geotechnical Engineering and Engineering Geology.

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- Specialist consultant – Hopefield Wind Energy Facility EIA
- Specialist consultant - Koeberg 2 Transmission Lines EIA
- Specialist consultant – Flagging Trees Wind Energy Facility EIA
- Specialist consultant – Jansenville Cemetery EIA
- Geotechnical Site Investigation – Stilbaai Wind Energy Facility

## **CURRICULUM VITAE**

### **JO-ANNE THOMAS**

*Director: Savannah Environmental (Pty) Ltd*

*Environmental Scientist*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Ten (10) years experience in the environmental field
- Experienced in project management for a range of projects
- Experienced in the identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data
- Experienced in the identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Experienced in the compilation and review of environmental reports in accordance with relevant environmental legislative requirements
- Experienced in the formulation of environmental policies, strategies and guidelines
- Experienced in undertaking public participation processes for a variety of projects
- Experienced in providing strategic environmental advice to a wide variety of clients both in the public and private sectors
- Working knowledge of environmental planning processes, policies, regulatory frameworks and legislation
- Registered Professional Natural Scientist (Registration No 400024/00)

#### **TERTIARY EDUCATION**

B.Sc Earth Sciences, *University of the Witwatersrand, Johannesburg, 1993*

B.Sc Honours in Botany, *University of the Witwatersrand, Johannesburg, 1994*

M.Sc in Botany, *University of the Witwatersrand, Johannesburg, 1996*

#### **EMPLOYMENT HISTORY**

Nov 2006 – present: Savannah Environmental (Pty) Ltd: Director; Environmental Scientist

Oct 1997 – Oct 2005: Bohlweki Environmental (Pty) Ltd: Environmental Scientist

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- EIA and EMP for the proposed Steelpoort Integration Project, Mpumalanga & Limpopo Provinces (for Eskom Transmission)) – project management & report compilation
- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site within the Western Cape (for Eskom Generation)) – report compilation
- Development of a comprehensive site-specific EMP for the construction and operation of the Eskom Braamhoek Integration Project, Free State and KwaZulu-Natal Provinces - project management & report compilation
- EIA and EMP for the proposed Open Cycle Gas Turbine (OCGT) Power Station and associated 400 kV Transmission lines and substation at Atlantis, Western Cape Province - project management & report compilation
- Environmental Scoping Study for a new coal-fired power station in the Lephalale area, Limpopo Province – report compilation
- Detailed Environmental Scoping Study & public participation for the proposed Capacity Increase Project at Arnot Power Station, Mpumalanga Province
- Numerous EIAs for various electricity sector projects (generation, transmission & distribution) in all nine provinces of South Africa

# JONATHAN JAMES SMALLIE

## Curriculum Vitae

- Date of birth:** 20 October 1975
- Qualifications:** BSC – Agriculture (Hons)  
University of Natal - Pietermaritzburg
- Occupation:** Field Biologist – Endangered Wildlife Trust –  
Industries Partnership (a working group of  
Endangered Wildlife Trust)
- Duties:** Conduct investigations, impact assessments, studies,  
research on wildlife interactions with power line  
infrastructure and wildlife hazards at airports.

The following projects have been completed since 2000.

### 1) Wildlife interactions with power lines

*Bird Impact Assessment Studies for Electrical infrastructure:*

Transmission lines:

- Mercury – Perseus 400kV
- Eros – Neptune – Grassridge 400kV
- Kudu-Juno 400kV
- Garona Aries 400kV
- Perseus Hydra 765kV
- Tabor – Witkop 275kV
- Tabor Spencer 400kV
- Moropule Orapa 220kV (Botswana)
- Coega Electrification
- Gamma Grassridge 765kV

Distribution lines:

- Kanoneiland 22kV
- Hydra-Gamma 765kV
- Komani-Manzana 132kV
- Rockdale-Middelburg 132kV
- Irenedale 132 kV
- Zandfontein 132kV
- Venulu-Makonde 132 kV

- Spencer-Makonde 132 kV
- Dalkeith-Jackal Creek 132kV
- Glen Austin 88kV
- Bulgerivier 132kV
- Ottawa-Tongaat 132kV
- Disselfontein 132kV
- Voorspoed Mine 132kV
- Wonderfontein 132kV
- Kabokweni Hlau Hlau 132kV
- Hazyview Kiepersol 132kV
- Mayfern Delta 132kV
- VAAL Vresap 88kV
- Arthursview Modderkuil 88kV
- Orapa, AK6, Lethakane substations and 66kV lines (Botswana)
- Dagbreek Hermon 66kV
- Uitkoms Majuba 88kV
- Pilanesberg Spitskop 132kV
- Qumbu PG Bison 132kV
- Louis Trichardt Venetia 132kV
- Rockdale Middelburg Ferrochrome 132kV

Generation projects:

- Eskom Concentrated Solar Power Plant
- West Coast Wind Energy Facility

Substations:

- Nooitgedacht distribution
- Pilanesberg distribution
- Gamma Transmission

*Risk Assessments on existing power lines:*

- Hydra-Droerivier 1,2 & 3 – 400kV
- Hydra-Poseidon 1,2 – 400kV
- Butterworth – Ncora 66kV
- Nieu-Bethesda 22kV
- Maclear 22kV (Joelshoek Valley Project)
- Wodehouse 22kV (Dordrecht district)
- Burgersdorp - Aliwal North - Jamestown 22kV
- Cradock 22kV
- Colesberg area 22kV
- Loxton self build 11kV
- Kanoneiland 22kV

- Stutterheim Municipality 22kV
- Majuba-Venus 400kV
- Chivelston-Mersey 400kV
- Marathon-Prairie 275kV
- Delphi-Neptune 400Kv
- Ingagane – Bloukrans 275kv
- Ingagane – Danskraal 275kv
- Danskraal – Bloukrans 275kv

*Bird mortality investigations & other studies:*

- Bird Impact Assessment for Lizzard Point Golf Estate - Vaaldam
- Bird Impact Assessment for Lever Creek Estates housing development
- Investigation into rotating Bird Flapper saga – Aberdeen 22kV
- Investigation of in excess of 80 separate incidents of bird mortalities on power line networks from August 1999 to present
- Investigation of bird mortalities at 3 separate substations
- Special investigation into faulting on Ariadne-Eros 132kV
- Special investigation into Bald Ibis faulting on Tutuka Pegasus 275kV
- Special investigation into bird related faulting on 22kV Geluk Hendrina line
- Special investigation into bird related faulting on Camden Chivelston 400kV line

*Avifaunal “walk thoughts” (EMP’s):*

- Beta Delphi 400kV
- Mercury Perseus 765kV

*Research projects:*

- Southern Region Proactive GIS Blue Crane collision project

*Conferences attended:*

- September 2000: 5<sup>th</sup> World Conference on Birds of Prey in Seville, Spain.
- 2003: Presented a talk on “Birds & Power lines” at the 2003 AGM of the Amalgamated Municipal Electrical Unions – in Stutterheim - Eastern Cape

- June 2005: IASTED Conference at Benalmadena, Spain – presented a paper entitled “Impact of bird streamers on quality of supply on transmission lines: a case study”
- March 27 – 30 2006: International Conference on Overhead Lines, Design, Construction, Inspection & Maintenance, Fort Collins Colorado USA. Presented a paper entitled “Assessing the powerline network in the Kwa-Zulu Natal Province of South Africa from a vulture interaction perspective”.

*Courses & training:*

- Successfully completed a 5 day course in High Voltage Regulations (modules 1 to 10) conducted by Eskom – Southern Region
- Successfully completed training on, and obtained authorization for, live line installation of Bird Flappers

*Papers:*

- Smallie, J. & Van Rooyen, C. 2003. Risk assessment of bird interaction on the Hydra-Droërvier 1 and 2 400kV. Unpublished report to Eskom Transmission Group. Endangered Wildlife Trust. Johannesburg. South Africa
- Van Rooyen, C. Jenkins, A. De Goede, J. & Smallie J. 2003. Environmentally acceptable ways to minimise the incidence of power outages associated with large raptor nests on Eskom pylons in the Karoo: Lessons learnt to date. Project number 9RE-00005 / R1127 Technology Services International. Johannesburg. South Africa
- Smallie, J. & Van Rooyen, C. 2005. Impact of bird streamers on quality of supply on transmission lines: a case study. Proceedings of the Fifth IASTED International Conference on Power and Energy Systems, Benalmadena, Spain.

## **2) Wildlife hazards at airports**

*Risk assessments:*

Assessments of the bird strike hazard posed to aircraft have been conducted at the following airports:

- Kigali International Airport - Rwanda
- Port Elizabeth Airport – specialist study as part of the EIA for the proposed Madiba Bay Leisure Park
- Manzini International Airport (Swaziland)
- Polokwane International Airport
- Mafekeng International Airport
- Lanseria Airport

*Courses and training:*

- One day course in Airside Induction & Safety successfully attended

*Conferences attended:*

- May 2005: International Bird Strike Committee 27<sup>th</sup> meeting – Athens, Greece. Presented a paper entitled Bird Strike Data analysis at SA airports 1999 to 2004.

*Papers:*

- Smallie, J. & Froneman, A. 2005. Bird Strike data analysis at South African Airports 1999 to 2004. Proceedings of the 27<sup>th</sup> Conference of the International Bird Strike Committee, Athens Greece.

# **CURRICULUM VITAE**

## **NICHOLAS ALEXANDER HELME**

*Nick Helme Botanical Surveys*  
*Specialist Botanical Consultant*

### **SKILLS BASE AND CORE COMPETENCIES**

- Sixteen (16) years experience in the botanical field
- Ten (10) years experience as a specialist botanist
- Over 650 botanical assessments of proposed development sites (golfcourses, housing estates, quarries; roads; powerlines; powerstations; borrow pits) in localities as far afield as Plettenberg Bay, Knysna, Agulhas, Bot River, Hermanus, Stellenbosch, Durbanville, Hopefield, Piketberg, Saldanha, Lamberts Bay, Brand se Baai, and Namaqualand.
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### **TERTIARY EDUCATION**

BSc (Honours) - Botany. University of Cape Town, Rondebosch, South Africa. Graduated 1990

### **EMPLOYMENT HISTORY**

*1997 – present:* Nick Helme Botanical Surveys - Specialist Botanical Consultant

*January 1998 – Dec 2001:* Full-time associate with Doug Jeffery Environmental Consultants

*May - September 1997:* Freelance botanist for Doug Jeffery Environmental Consultants

*May 1993 - July 1996:* Biodiversity Assessment in the Tropics

*1991 – 1992:* Conservation Researcher, Botanical Society of South Africa

### **SELECTED RELEVANT PROJECT EXPERIENCE**

- Assessment of proposed Iubhesi natural gas project in area south of Groen River mouth, Namakwaland
- Scoping and Impact Assessment for proposed new Eskom powerline from Alexander Bay to Vredendal
- Assessment of new Eskom OCGT Atlantis site
- Assessment of proposed Bound for Gold mineral sands exploration program on the west coast south of Brand se Baai
- Fine Scale vegetation mapping project in NW Sandveld
- Scoping and Impact Assessment of Eskom OCGT Mossel Bay site
- Impact Assessment of proposed Namakwa Sands expansion project, Brand se Baai
- Assessment for new Eskom Omega substation
- Vegetation survey of proposed Namakwa Sands heavy mineral sands expansion project at Brand se Baai and Koekenaap MSP
- Vegetation survey and IA on upgrading of Lamberts Bay - Elands Bay road
- Vegetation survey for Eskom Cape Strengthening Program from Luckhoff to Cape Town
- Recent (2003) contributions to the new Vegetation Map of South Africa (National Botanical Institute)
- Second author of new Red Data Book list of South African Proteaceae
- Compiled a Fine Scale Conservation Plan for the Slanghoek Valley, Worcester (in collaboration with CapeNature and Dept. Agriculture)
- First author of vegetation component of Fine Scale Vegetation Mapping projects in Saldanha, NW Sandveld, Bokkeveld escarpment, and Upper Breede river valleys (CapeNature)

**CURRICULUM VITAE  
NICO-RONALDO RETIEF**

Profession : Environmental Consultant  
Specialisation : Zoology  
Environmental Compliance Monitoring  
Environmental Impact Assessment  
Environmental Management  
Guideline development & Preparation  
Years experience : **Two years and one month in the Environmental Field**

**KEY RESPONSIBILITIES**

- Project Reporting
- Public Participation

**SKILLS BASE AND CORE COMPETENCIES**

- Published scientific research in international journals "Physics and Chemistry of the Earth" and "Water SA";
- Attended international conferences during M.Sc study in Swaziland, Bloemfontein and Namibia, and abstracts were published in international journals "Suid Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie" and "Journal of the South African Veterinary Association"
- Identification and the assessment of potential environmental impacts and benefits;
- The development of Environmental Management Plans (EMPs) for various projects;
- Environmental Compliance monitoring and reporting for construction and development projects;
- Compilation and review of reports in accordance with all relevant environmental legislation;
- Involved in carrying out Public Participation for a variety of projects, as well as stakeholder consultation and Focus Group Consultation;
- Worked in Johannesburg on various projects, as well as in Rustenburg, Ledig, Sun City and the KwaZulu-Natal Midlands.

**EDUCATION AND PROFESSIONAL STATUS**

**Degrees:**

- B.Sc Natural Environmental Sciences – Rand Afrikaans University (2001-2003);
- B.Sc Honours in Zoology – Rand Afrikaans University (2004);
- M.Sc in Zoology - University of Johannesburg (2005-2007)

**Scientific Publications:**

- Retief, N.-R., Avenant-Oldewage, A., du Preez, H.H. 2006. The use of cestode parasites from the largemouth yellowfish, *Labeobarbus kimberleyensis* (Gilchrist and Thompson, 1913) in the Vaal Dam, South Africa as indicators of heavy metal bioaccumulation. *Physics and Chemistry of the Earth* 31, 840-847.
- Retief, N.-R., Avenant-Oldewage, A., du Preez, H.H. 2007. Ecological aspects of the occurrence of Asian tapeworm, *Bothriocephalus acheilognathi* Yamaguti, 1934 infection in the Largemouth yellowfish, *Labeobarbus kimberleyensis* Gilchrist and Thompson, 1913 in the Vaal Dam, South Africa. *Physics and Chemistry of the Earth* 32(15-18), 1384-1390.

- RETIEF N-R, AVENANT-OLDEWAGE A, DU PREEZ HH (2009). Seasonal study on *Bothriocephalus* as indicator of metal pollution in yellowfish, South Africa. *Water SA* **35** (3) 315-322.

**Abstracts published:**

- Retief, N.-R., Avenant-Oldewage, A., du Preez, H.H., 2007. Aspekte van die ekologie van *Bothriocephalus acheilognathi* besmetting in die Vaaldam. *Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie* 26(1), 72. The abstract was presented at the Akademie vir Wetenskap en Kuns. Afdeling Biologiese Wetenskappe Kongres. Universiteit van die Oranje-Vrystaat. 8 September 2006.
- Retief, N.-R., Avenant-Oldewage, A., du Preez, H.H. 2007. Ecological aspects of *Bothriocephalus acheilognathi* in the Vaal Dam. *Journal of the South African Veterinary Association* 78(2), 111-112. The abstract was presented at the 35th Annual Congress of the Parasitological Society of Southern Africa (PARSA), 24–26 September 2006, Ministry of Mines and Energy, Windhoek, Namibia.

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**EMPLOYMENT**

- October 2007 to April 2009: Nemaï Consulting CC: Environmental consultant
- May 2009 to current: Savannah Environmental (Pty) Ltd: Environmental consultant

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**PROJECT EXPERIENCE**

**1. NEMAI CONSULTING:**

**A. Environmental Impact Assessments:**

1. Upgrade of Doornfontein Railway Station for the 2010 Soccer World Cup.
2. Upgrade of Charles Street in Pretoria for the 2010 Soccer World Cup.
3. Zuikerbosch Pump Station: Central Sludge Pipeline.
4. Kempton Park Eastern Outfall Sewer.
5. Upgrade of the R103 between Johannesburg and Heidelberg.
6. Upgrade of Parks in the Soweto area (Along the Klipspruit and Klip River).
7. Upgrade of Moore Street.
8. Replacement of main water lines at the Signal Hill reservoir in Bedfordview.
9. Rehabilitation of the Bruma Lake.
10. Waterkloof 305 Rezoning portion 37.
11. Sun City Recreational dam spillway Rising Public Participation.
12. Ledig Water Supply EIA in the North West Province.

**B. Research projects:**

1. Wetlands guideline incorporating previous literature, Wise Use of Wetlands and Best Management practises of Wetlands for DWAF.
2. DWAF Agricultural Research Project, including the topics wineries, eutrophication, agricultural strategies and Communication framework in agriculture.
3. Assisting in preparing user-friendly material for Resource Directed Measures including Spatial and Time Series Information Modelling Software (SPATSIM), Groundwater Resources Directed Measures (GRDM) and Teacha (Tool for Ecological Aquatic Chemical Habitat Assessment) software packages.
4. Prepared Posters for Resources Directed Measures;
5. Prepared a Layman's pocket guide summarizing Resources Directed Measures;

**C. Water Resource Monitoring and Biomonitoring:**

1. Biomonitoring of numerous urban rivers (e.g. Jukskei River, Harrington Spruit and Klip River) for Johannesburg Water. This includes the Northern Wastewater treatment works, Goudkoppies Wastewater Treatment Works, Bushkoppie Wastewater Treatment Works and Olifantsvlei Wastewater Treatment Works as well as Bruma Lake.

2. Biomonitoring of the Mhlabatshane River in the KwaZulu-Natal midlands.
3. Northern Wastewater Treatment Works investigation.
4. Investigation for the Zandspruit Pump Station Sewage Spill. Biomonitoring in the Klein Jukskei River.
5. Sustainable Urban River Management Plan for the upper Klipspruit Catchment.

**D. Environmental Control Officer (ECO work):**

1. Tembisa Bulk Reservoir pipeline construction.
2. Upgrade of Klipspruit Parks – Dube, Dhlamini-Kliptown and Mofolo South and Klipspruit Valley Road North.

**E. Training**

1. Attended a Basic Wetlands training course on 14, 15 April 2008 at Clumy farm near Sandton;
2. Assisted in Department of Water Affairs and Forestry Resource Quality Objectives training for DWAF on 25 March 2009 at DWAF Head Office in Pretoria;

**2. SAVANNAH ENVIRONMENTAL:**

**A. Environmental Impact Assessments:**

1. Part of a team undertaking the EIA for a nuclear power plant next to the existing Koeberg nuclear power station in Cape Town. An Eskom Project.
2. Part of a team undertaking the EIA for the Tshwane Strengthening Project (Apollo Substation to Verwoerdburg and Kwagga to Phoebus substation). An Eskom project.
3. Part of a team undertaking the Mulilo wind monitoring project on the border of the Northern and Western Cape.
4. Responsible the siting of Solar Energy facilities near Lephalale (Ellisras), Limpopo Province. An Exxaro project.
5. Responsible undertaking the upgrade of the road link between South Africa and Botswana at the Swartkopfontein Border Post.
6. Responsible for the environmental process for the Richards Bay Harbour Staging Area (An Eskom Project).
7. Part of a team involved with the wind energy facilities in the Suurplaat, West Coast and Darling Areas, Western Cape Province. An Investec Project
8. Presently undertaking the Basic Assessment Process for the establishment of wind monitoring masts on a site owned by EXXARO near Brand-se-Baai. An EXXARO initiative.

## **CURRICULUM VITAE**

### **TIMOTHY HART**

*UCT Archaeology, Archaeology Contracts Office (ACO)*

*Archaeologist and General Heritage Practitioner*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Twenty (20) years experience in the archaeology and heritage specialist field
- Experienced in undertaking Archaeological assessments, Heritage Impact Assessments, Heritage Conservation Planning. ASAPA accredited for pre-colonial archaeology, colonial period, rock art, industrial archaeology, coastal archaeology, grave relocation
- Led and completed over 400 projects throughout the country ranging from minor assessments to participating as a specialist in a number of substantial EIA's as well as international research projects
- Professional member (no 50) Association of Southern African Professional Archaeologists (ASAPA)
- Principal Investigator, cultural resources management section (ASAPA)
- Professional member in specialist and generalist categories Association of Heritage Assessment Professionals
- Founder member of Association of Heritage Assessment Professionals
- Founder member and secretary CRM section ASAPA (1995)
- Council member (1995 – 2000) ASAPA
- Built environment and landscape committee member (2004-2007) Heritage Western Cape (provincial compliance authority for heritage)
- Honorary member of 2 historical associations.

#### **TERTIARY EDUCATION**

- Bachelor of Arts in Archaeology and Psychology
- BA Honours in archaeology
- MA in Archaeology

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- Development of a heritage management plan and ongoing annual mitigation for the De Beers Namaqualand Mines Division
- Heritage management for Namakwa Sands and other west coast and Northern Cape mining firms
- Specialist consultant – Eskom's Kudu Integration project (identifying transmission line routes across Namaqualand)
- Specialist consultant – Eskom's Atantis Open Cycle Gas Turbine project
- Specialist consultant – Nuclear 1
- Specialist consultant - PBMR
- Contracted by University of Stanford to set up and participate in Duinefontein Archaeological Research project, Koeberg Nuclear Power Station
- Specialist consultant – Department of Water Affairs raising of Clanwilliam Dam project
- Specialist consultant to De Beers Namaqualand Mines (multiple projects since 1995)

## **CURRICULUM VITAE**

### **ZAMA DLAMINI**

Profession : Environmental Consultant  
Specialisation : Environmental Management; Strategic environmental advice;  
Environmental compliance advice & monitoring; Environmental Impact Assessments; Project Management  
Years experience : Seven (7) years in the environmental field

#### **KEY RESPONSIBILITIES**

- Conducting and management of Environmental Impact Assessments (EIAs) and other environmental investigations according to the current legislation
- Conducting Strategic Environmental Assessments (SEAs) and other environmental investigations according to the new EIA legislation such as Environmental Management Frameworks
- Providing input for strategic assessment, policy development and reporting
- Interpreting and applying Environmental Legislation
- Development, planning, co-ordinating and facilitating Public Participation Process (PPP)
- Client and Authority liaison
- Compiling, reviewing and approving project proposals and environmental reports
- Developing and implementing Environmental Management Plans (EMP's)
- Conducting environmental monitoring, reviews and audits
- Mentoring of Junior Staff
- Provision of ongoing assistance and support to the Organisation's Directors, Site ECO and rest of the environmental and engineering team

#### **SKILLS BASE AND CORE COMPETENCIES**

- Project management for a range of projects
- Identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data
- Identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Compilation of environmental reports in accordance with relevant environmental legislative requirements
- Public participation processes for a variety of projects
- Strategic environmental advice to a wide variety of clients both in the public and private sectors
- Working knowledge of environmental planning processes, policies, regulatory frameworks and legislation
- Compiling, reviewing and approving project proposals and environmental reports
- Developing and implementing Environmental Management Plans (EMP's)

## EDUCATION AND PROFESSIONAL STATUS

### **Degrees:**

B.Soc Sc Geography and Environmental Science, *University of Durban Westville, Durban, 1998*

B.Soc Sc Honours in Geography and Environmental Science, *University of Durban Westville, Durban, 1999*

M.Soc Sc Environmental Management, *University of the Natal, Howard College, Durban, 2004*

### **Courses:**

International Certificate in Public Participation, Golder Associates Africa, 2007

Environmental Law, *Potchefstroom University, 2008*

Mine Water Management, University of Free State, 2008

### **Professional Society Affiliations:**

None.

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## EMPLOYMENT

*Environmental Consultant:* Savannah Environmental (Pty) Ltd. Independent specialist environmental consultant

*April 2007-December 2008:* Knight Piesold Consulting (Pty) Ltd: Environmental Scientist; Environmental Management and Project Management

*March 2003 to March 2007:* Environmental Planner, eThekweni Municipality, Durban

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## PROJECT EXPERIENCE

Current projects include:

### **Compliance Monitoring**

- ECO compliance monitoring for the construction of the De Hoop Dam and the diversion of the R555, Limpopo Province

### **Electricity Sector Projects**

- Project manager for the EIA and EMP for the proposed Tshwane Strengthening Project, Gauteng Province (for Eskom Transmission)
- EIA Team for the proposed Mokopane Integration Project, Limpopo Province (for Eskom Transmission)
- EIA Team for the proposed Koeberg 2 Project, Western Cape Province (for Eskom Transmission)
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- EIA Team for the proposed conversion of the existing Open Cycle Gas Turbine (OCGT) Gourikwa Power Station (located near Mossel Bay) to a Combined Cycle Gas Turbine (CCGT) power station, and the associated 400 kV transmission power line between Gourikwa Power Station and the Proteus Substation (for Eskom Generation)

***Renewable Energy Projects***

- Basic Assessment for the proposed wind monitoring masts on sites near Darling and West Coast in the Western Cape Province (for Investec)
- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site near Darling and West Coast within the Western Cape Province (for Investec)

***Transport sector projects***

- Environmental Impact Assessment and Environmental Management Plan for the proposed Ngotwane Bridge between South Africa and Botswana

**Projects undertaken on behalf of Knight Piesold Consulting include:**

***Mining Sector Projects***

- Environmental Impact Assessment and Environmental Management Programme in terms of the MPRDA for the proposed Leeuwkop Platinum Mine near Pilanesberg, North-West Province
- Environmental Impact Assessment and Environmental Management Programme in terms of the MPRDA for the proposed Burnstone Gold Mine near Balfour, Mpumalanga Province
- Environmental Management Programmes for three borrow pits associated with the proposed Upgrade of the DWAF Seven Dams Project, Eastern Cape Province

***Water resources projects***

- Surface and groundwater monitoring and chemical analysis for the proposed Sedibelo Platinum Mine near Pilanesberg, North-West Province (for Barrick Gold)
- Surface and groundwater monitoring and chemical analysis for the proposed Leeuwkop Platinum Mine near Pilanesberg, North-West Province (for AFPLATS)
- Surface and groundwater monitoring and chemical analysis for the proposed Burnstone Gold Mine near Balfour, Mpumalanga Province (for South Gold)

***Transport sector projects***

- Basic Assessment for the proposed upgrade to Louis Botha Avenue and N1 Highway.

***Renewable Energy Projects***

- Hydropower Plant for the proposed Twangiza Gold Mine in the Democratic Republic of Congo
- Risk analysis for the proposed extension of the Maguga River in Swaziland.