

**CURRICULUM VITAE
KAREN JODAS**

*Director: Savannah Environmental (Pty) Ltd
Environmental Scientist (MSc, Pr.Sci.Nat)*

SKILLS BASE AND CORE COMPETENCIES

- Eleven (11) years experience in the environmental management and assessment field
- Nine (9) years experience in Project Management
- Project management of large environmental assessment & environmental management projects
- Experienced in the identification & assessment of potential environmental impacts & benefits
- Experienced in the development of practical & achievable mitigation measures & management plans, and evaluation of risk
- Experienced in the formulation of environmental strategy, policy & guidelines
- Working knowledge of environmental planning processes, policies, regulatory frameworks & legislation
- Experienced in the compilation and review of the reports in accordance with all relevant environmental legislation
- Wide range of experience for public and private sector projects - completed more than 50 environmental projects for a wide variety of Clients
- Experienced in undertaking public participation processes for a variety of projects
- Completed projects in all nine Provinces of South Africa, as well as Zambia and Lesotho
- *Specialisation:* Strategic environmental assessment and advice; Project Management and coordination of environmental projects; Environmental Management; Environmental Impact Assessment; Integration of environmental studies and environmental processes into larger engineering-based projects and ensuring compliance to legislation and guidelines; Hydrology and Water Management; General Ecology
- Registered Professional Natural Scientist (Registration No 400106/99)

TERTIARY EDUCATION

B.Sc Earth Sciences, majoring in Geography and Zoology, *Rhodes University, Grahamstown, 1993*

B.Sc Honours in Geography (in Environmental Water Management), *Rhodes University, Grahamstown, 1994*. Major subjects included Water Resources Management, Streams Ecology, Fluvial Geomorphology and Geographic Information Systems.

M.Sc in Geography (Geomorphology), *Rhodes University, Grahamstown, 1996*

Water Quality Management, *Potchefstroom University, 1998*

Environmental Law Course, *Aldo Leopold Institute, 2002*

EMPLOYMENT HISTORY

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

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

SELECTED RELEVANT PROJECT EXPERIENCE

- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site within the Western Cape (Eskom Generation) – project management & 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 (Eskom Transmission) - project management & report compilation
- EIA and EMP for the proposed Steelpoort Integration Project, Mpumalanga & Limpopo Provinces (Eskom Transmission) – report compilation
- Environmental Scoping Study for a new coal-fired power station in the Lephalale area, Limpopo Province (Eskom Generation) – report compilation
- Detailed Environmental Scoping Study & public participation for the proposed Capacity Increase Project at Arnot Power Station, Mpumalanga Province (Eskom Generation) - report compilation
- Numerous EIAs for various electricity sector projects (generation, transmission & distribution) in all nine provinces of South Africa

CURRICULUM VITAE

RAVISHA AJODHAPERSADH

Profession : Environmental Consultant
Specialisation : Environmental Management
Years experience : Four

KEY RESPONSIBILITIES

- Providing consulting services to clients for Environmental-related matters.
- Conducting Environmental Impact Assessment (EIA) processes.
- Preparation of EIA reports.
- Environmental Compliance Auditing and Environmental Control Officer (ECO) services.
- Project management.

SKILLS BASE AND CORE COMPETENCIES

- EIA Reporting
- Site Investigations
- Environmental Auditing and compliance monitoring
- Co-ordination and management of project teams
- Co-ordinating and conducting Public Involvement processes.
- Preparing maps (using GIS)
- Administrative tasks (minutes of meetings)
- Research

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B Soc Sci (Environmental Management) obtained from the University of Natal in 2005.
- (Hons) (BSc) (Environmental Management) obtained from the University of South Africa in 2010.

Courses:

- Attended an EIA training course conducted by Dekra Norisko in 2008.
- Attended a Wetlands Course by the WESSA and the Department of Water Affairs and Forestry in 2008.

Professional Society Affiliations:

None

EMPLOYMENT

1. June 2007 – April 2009

Name of Employer: Nema Consulting

Position: Environmental Consultant

2. May 2009 – August 2009

Name of Employer: Environmental Impact Management Services

Position: Environmental Control Officer

3. September 2009 – Present

Name of Employer: Savannah Environmental

Position: Environmental Consultant

PROJECT EXPERIENCE:

ENVIRONMENTAL IMPACT ASSESSMENTS

1. Undertook the Basic Assessment Process for the Proposed Wind Monitoring Mast, near Britannia Bay, Western Cape Province.
2. Undertook the Basic Assessment Process for the Proposed Amakhala Emoyeni Wind Monitoring Masts, between Bedford and Cookhouse, Eastern Cape Province.
3. Undertook the Basic Assessment Process for the Proposed Wind Monitoring Masts, near Vredenburg, Western Cape Province.
4. Prepared Scoping Report for the Proposed Flagging Trees Wind Energy Facility, near Middelburg, Eastern Cape Province.
5. Prepared Scoping, EIA Report & EMP for the Proposed Suurplaat Wind Energy Facility, near Sutherland Western and Northern Cape Provinces.
6. Prepared Scoping, EIA Reports & EMPs for the West Coast One and Rhebokfontein Wind Energy Facility's, Western Cape
7. Prepared Scoping Report for the Uyekraal Wind Energy Facility near Vredenburg, Western Cape
8. Undertook several Basic Assessments for Sections (Section 1, Section 2 & Section 10 – Soweto) of the Rea Vaya Bus Rapid Transit System and road upgrade (under Nemai Consulting) for the Johannesburg Development Agency (2008-2009).
9. Undertaking Scoping & EIA process for two Solar Plants in the Northern Cape Province, for MedEnergy Global (current).

ENVIRONMENTAL COMPLIANCE AUDITING AND ECO

1. Environmental Control Officer (monthly audits) undertaking environmental monitoring for the Waterval Water Care Works on behalf of ERWAT (2010 – current).
2. Environmental Control Officer (full time, daily auditing) for Transnet's New Multi-Product Pipeline, duties include environmental auditing, preparing daily reports, weekly reports and monthly reports (2009) under IEMS.
3. Environmental Control Officer (weekly auditing) for the rehabilitation of Blaauwpan Dam due to aviation fuel spillages from O.R Tambo Airport on behalf of the Airports Company of South Africa (2010).

WATER USE LICENCES

1. Undertook Water Use Licence for Section 1 (Klipspruit Valley Road) of the Rea Vaya Bus Rapid Transit System and road upgrade (under Nemai Consulting) for the Johannesburg Development Agency (2008-2009).
2. Currently preparing a Water Use Licence for culverts at road crossings for the Suurplaat wind energy facility, Northern Cape Province.

**CURRICULUM VITAE
UMESHREE NAICKER**

Profession : *Environmental Consultant*
Specialisation : *Environmental Management*
Work experience : *4 years*

SKILLS BASE AND CORE COMPETENCIES

- . The compilation of the environmental application forms and reports for the environmental processes; Basic Assessment, Scoping and EIR, Amendment Application and Appeals Procedure
- Co-ordinate and facilitate Public Participation Process (PPP):
- Liaising with client, relevant authorities and departments.
- ECO/EO Audits and the compilation and implementation of Environmental Management Programmes

TERTIARY EDUCATION

- . BSc (Environmental Science) Obtained from the University of Kwa Zulu Natal (2007)
- 2. BSc Hons (Environmental Science) obtained from the University of South Africa (2011)

EMPLOYMENT HISTORY

- 1. January 2012 to current, Company : Savannah Environmental, Position: Environmental Consultant
- 2. February 2008 – November 2011, Company : Buk'indalo Consultancy, Position: Jnr Environmental Consultant

SELECTED RELEVANT PROJECT EXPERIENCE

- Basic Assessment Process for the construction of various Local Roads and Causeways in the Umkhanyakude District Municipality
- 2. Basic Assessment Process for the construction of two Bridges (No 3126/1 & 3127/1), and Extension to Local Road L1135 Uthukela District Municipality
- 3. Scoping Report for the Raising of the Refurbishment Dam Wall and the Installation of a pipeline for the Eston Sugar Mill, 2008.
- 4. Basic Assessment Process for the construction of two Bridges (No 3126/1 & 3127/1), and Extension to Local Road L1135 Uthukela District Municipality for 2010, Department of Transport: Estcourt Cost Centre.
- 5. Basic Assessment Process for the construction of Local Roads and Causeways in the Umkhanyakude District Municipality for 2011, Department of Transport

CURRICULUM VITAE

TONY BARBOUR

Environmental Consultant and Researcher

SKILLS BASE AND CORE COMPETENCIES

- More than 18 years experience in the field of environmental management.
- Undertaken 20 Social Impact Assessments (SIA) for EIAs commissioned by the Department of Environmental Affairs and Development Planning (DEA&DP).
- Developed SIA guidelines for DWAF.
- Worked experience in South Africa, Botswana, Namibia, Zambia, Lesotho and Swaziland.

TERTIARY EDUCATION

- BSc (Geology and Economics) Rhodes, 1984
- BEcon (Hons) Rhodes, 1985
- MSc (Environmental Science) University of Cape Town, 1992

EMPLOYMENT HISTORY

- Private consultant: November 2004 – present
- UCT: August 1996- October 2004. Environmental Evaluation Unit, Senior Environmental Consultant and Researcher.
- 1991-1996: Ninham Shand Consulting, Cape Town. Senior Environmental Scientist
- 1996-2000; SRK Consulting, Associate Director, Cape Town
- 1990- Current: Lecturer, UCT and Cape Technikon, Environmental Economics, SIA, SEA, EIA and Waste Management.

SELECTED RELAVANT PROJECT EXPERIENCE

- SIA for the Darling Wind Farm, Western Capr (2001-2002).
- Portnet Saldanha, EIA for the expansion of a bulk iron ore exporting facility at the Port of Saldhana (2000).
- SIA for road upgrade between Gansbaai and Bredadorp (2005)
- SIA for Zeekoevlei Golf Estate, Somerset West (2005)
- SIA for Silwersand Golf and Resort Estate, Robertson, Western Cape (2003)
- Internal Review consultant for Golder Associates on Namakwa Sands Heavy Mineral Mining EIA (current).
- Review of EIA for Zeekoevlei Golf Course Estate, Somerset West (2005)
- Review of EIA for Oostenberg Waste Transfer Station, Brackenfell, Western Cape (2004)
- Review of EIA for N7 Road upgrade, Clanwilliam, Western Cape (2002).

CURRICULUM VITAE

JACQUES LOUIS VOLSCHENK

Profession: Town and Regional Planner (SACPLAN registration No. A/208/2010)

Specialisation : Town Planning-related applications, Project Management, Visual Impact Assessments

Work experience :

- 1 year in-service training at the City of Cape Town (1999)
- 10 years' experience in a leading integrated Town and Regional Planning Firm – Dennis Moss Partnership Urban Design
- Zone Land Solutions – Specialist Visual Impact Assessment

SKILLS BASE AND CORE COMPETENCIES

During my tenure as Professional Town Planner, I have been exposed to a wide range of projects within the realm of the planning profession. This enabled me to develop certain interests for which specific skills and tools have been acquired throughout the years.

To this extent, I find the field of development planning particularly interesting and challenging. The manner in which I have experienced development planning, require of a planner to perform a multitude of functions in a development process, key of which is a coordinating and managing role. The skills set needed to be successful in the profession also enabled me to expand my capabilities and into the realm of GIS-based visual assessments. The other key skills that I have acquired to excel in this field are:

- Development coordination and facilitation,
- Project management,
- Preparation of land development plans and report writing,
- Integrated environmental management, and
- Planning research.

TERTIARY EDUCATION

- Cape Peninsula University of Technology (previously Cape Technikon), Cape Town. ND: Town and Regional Planning. 2000
- Cape Peninsula University of Technology, Cape Town. BTech: Town and Regional Planning. 2001

EMPLOYMENT HISTORY

Refer above.

SELECTED RELAVANT PROJECT EXPERIENCE

- Ceder Lake Resort and Conference Centre (2008)
- Devonvale Golf and Wine Estate (2006)
- Hartenbosch Lifestyle Village and Garden Walk Precinct (2011)

CURRICULUM VITAE

Profession : *Botanist (Ecologist)*

Specialisation : *Botanist (Ecologist)*

Work experience : *I have been working as a botanist/ecologist in the semi-arid regions of South Africa since 1993*

SKILLS BASE AND CORE COMPETENCIES

Having completed my tertiary studies in the semi-arid areas and later working and re-registering to continue studies, I have built up a large knowledge base on the Succulent Karoo and Nama Karoo biomes. I have published many scientific and popular articles on studies completed in the semi-arid systems of South Africa. My previous employment at Northern Cape Nature Conservation enables me to understand and utilise conservation legislation to inform decision-making. This, together with my botanical (ecology) knowledge of the semi-arid areas, ensures that I am competent to conduct scientific studies and provide specialist reporting on these areas.

TERTIARY EDUCATION

BSc – Botany and Genetics, BSc(Hons) - Botany (Ecology) (cum laude), MSc - Botany (Ecology) (cum laude), PhD – Plant Science

EMPLOYMENT HISTORY

- Temporary Part-time Research Assistant (1990-1993) – University of Pretoria
- Tutor for Biology (First Semester 1995) – University of Pretoria
- Tutor for Botany (Second Semester 1995) – University of Pretoria
- Tutor for Biology (First Semester 1996) – University of Pretoria
- Preparation of Biology and Botany practicals (when technical assistants were on excursion or on leave) – University of Pretoria
- Senior Nature Conservation Scientist – Northern Cape Nature Conservation (April 1997 – June 2004)
- Temporary Full-time Research Officer - University of Pretoria (July 2004 – June 2008). I secured funding for a project in the Hantam-Tanqua-Roggeveld.
- Part-time PhD student, Department of Plant Science, University of Pretoria (2006 – 2009)
- Student assistantship – University of Pretoria (August 2009 – December 2009)
- Botanical surveys, specialist reporting and compilation of a field guide (May 2008 – until present)

SELECTED RELEVANT PROJECT EXPERIENCE

NUMEROUS BOTANICAL ECOLOGICAL SPECIALIST REPORTS HAVE BEEN COMPILED AS PART OF ENVIRONMENTAL IMPACT ASSESSMENTS AND VEGETATION SURVEYS IN THE ARID AREAS OF SOUTH AFRICA.

CURRICULUM VITAE

Louis George du Pisani

Profession : *Agricultural Consultant*
Specialisation : *Agricultural resource management in the semi-arid and arid regions of South Africa*
Work experience : *Specializing in this field since 1991*

SKILLS BASE AND CORE COMPETENCIES

Knowledge of the agricultural related natural resource base of the Karoo and Karroid areas of South Africa and its management requirements. Core competencies include identification and description of these resources, as well as compilation of sustainable management plans for these agricultural resources.

TERTIARY EDUCATION

B.Sc. Agric	Pasture Science & Small Stock Production University of the Orange Free State	1982
Hons. B.Sc. Agric	Pasture Science University of the Orange Free State	1983
M.Sc. Agric	Pasture Science University of the Orange Free State	1984
Ph.D. Agric	Pasture Science University of the Orange Free State	1992

EMPLOYMENT HISTORY

JUNE 2006 TO PRESENT Employed by EDUPLAN CC as an Agricultural Specialist for the Eastern Cape, Northern Cape, northern parts of the Western Cape and the southern Free State. Provide agricultural resource management plans to clients.

FEBRUARY 1998 TO MAY 2006 Employed by the National Wool Growers Association as Agricultural Specialist in the central Karoo. Provide agricultural resource management plans to clients.

SEPTEMBER 1991 TO JANUARY 1998 Employed by the Northern Cape Department of Agriculture as Assistant Director (Rangeland & Natural Resource Research) at the Grootfontein Development Institute and put in charge of the whole rangeland and natural resource research programme in the Karoo and Northern Cape.

DECEMBER 1981 TO AUGUST 1991 Employed by the Free State Department of Agriculture as Agricultural Researcher.

SELECTED RELEVANT PROJECT EXPERIENCE

Twenty years experience in pasture and natural resource management in the Karoo
Author or co-author of 20 publications in international and national journals and papers, presented 5 papers at International Conferences, as well as 2 at Regional and 10 at National Conferences. Was a member of 13 National Committees of the Department of Agriculture
Completed many agricultural potential studies in South Africa, Namibia and Argentina

CURRICULUM VITAE

Nkosinathi Tomose

Profession : Professional Archaeologist (CRM accredited by ASAPA) and General Heritage Specialist

Specialisation : Development applications, Heritage Project Management, Heritage Impact Assessments

Work experience : Freelance Cultural Resources Manager; Project management of Heritage (Scoping, HIAs ; Notices for Intent to Develop)

Management of document pathway through SAHRA and other heritage authorities (e.g. permit applications)

2009-2010: Cultural Heritage Officer, South African Heritage Resources Agency

2010-2012 PGS Heritage & Grave Relocation - Archaeologist & Heritage Specialist

Present Zone Land Solutions - Archaeologist & Heritage Specialist

HIGHLIGHTS, SKILLS BASE AND CORE COMPETENCIES

Highlights:

In September 2004, I was chosen as one of the two students from Wits University Archaeology Department to form part of the Rock Art Research Institute delegate to France; a trip aimed at strengthening collaborative relations between the Centre National De La Recherché (CNRS) and the Rock Art Research Institute, University of the Witwatersrand. During this trip I learnt that, in order to best manage, conserve and promote heritage it is best to develop collaborative relations and partnerships in order to achieve your objectives a model used by the French Ministry of Culture in association with different research institutions. Highlight: In October 2009, I received an all expense travel grant from the National Department of Science and Technology, Republic of South Africa in association with Wits University Archaeology, based on my expertise as heritage manager, to attend a conference in Beijing, China, in commemoration of the 80th anniversary of the discovery of the first skull of Peking Man. During the conference, I presented a paper

titled; Challenges and Opportunities in Managing a Public Heritage Site: A Case of the Cradle of Humankind World Heritage Site (COHWHHS), Gauteng and North West Province, South Africa. (Grant holder: Dr K Kuman, Senior Lecture, Wits University).

I also developed necessary skills and expertise in the various sectors of heritage and heritage management which I think qualifies me to recommend myself as a General Heritage Specialist. The other key skills that I have acquired to excel in this field are:

- Project Manager management of heritage and grave relocation projects
- Finds manager responsible for management of finds and materials from heritage and archaeological mitigation
- Social Facilitator – consulting with families and communities directly affected by grave relocations and heritage related projects.
- Management of document pathway through SAHRA and other heritage authorities

TERTIARY EDUCATION

- » University of the Witwatersrand, Johannesburg, South Africa. Master of Science (M.S.c) in Rock Art Studies (Archaeology & Heritage Management)
- » Bachelor of Science (B.S.c) Honours in Archaeology
- » Bachelor of Arts in Humanities Major courses: Archaeology & Geography.

Auxiliary courses: Anthropology, Sociology & Geology

Professional Memberships

2.1. Since 2006 Professional Member of the Association of SA Professional Archaeologists

2.2. 2007 - Committee Member – ASAPA Archaeology Transformation Committee

2.3. CRM Accredited Archaeologist: Field Supervisor- Iron Age, Rock Art & Grave Relocation

2.4. Amafa Registered Professional Archaeologist & General Heritage Specialist

SELECTED RELEVANT PROJECT EXPERIENCE

- » Solar power surveys Droogfontein and in Kakamas in the Northern Cape

- » Proposed Extension of Existing Firgrove MTS Substation Upgrade Heritage Western Cape

