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**EPS** CONSULTING  
ENGINEERS

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## CONDENSED COMPANY PROFILE

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## **1. INTRODUCTION**

EPS has been successfully serving the engineering needs of public and private sector clients for 28 years.

The primary member firm – EPS Consulting Engineers – was established in 1987 to provide engineering consultancy services and practised in Pretoria under the name Engelbrecht and Partners. Since its inception, EPS has expanded its services into other areas and changed the company's name in 1997 to EPS (Engineering Planning Services) with head office based in Rustenburg.

EPS has based its growth on providing clients with the highest standards of professionalism and by utilising experience and the latest technology, furnished customers with innovative solutions to problems.

At EPS, we are committed to:

Satisfy the needs of each client and serve them with honesty and integrity.

Active involvement in community upliftment projects and capacity building in disadvantaged communities.

Meet the demands of society and fulfil its needs.

Offer a competent and competitive service of exceptional quality.

Add value to our projects through quality of service and effective designs.

We are business orientated and strive for sustainable profitability and growth.

## **2. REGISTRATION**

Members of EPS are – inter alia – registered with the following professional bodies to guarantee the highest standards of professionalism namely:

- Engineering Council of South Africa
- South African Institution of Civil Engineering

## **3. MISSION**

We strive to conceive design and construct projects to fulfil the needs of each client and to supersede their expectations, by offering innovative solutions based on sound scientific principles.

## **4. COMMUNITY INVOLVEMENT**

### **FACILITATION OF COMMUNITY INVOLVEMENT**

EPS has extensive experience working with communities of all sizes to provide an array of specialised services such as facilitation of Community involvement. The facilitation process (community engagement process) is usually required to establish social and development compacts for targeted communities.

### **OTHER COMMUNITY INVOLVEMENT PROJECTS**

Profit motive is eventually the driving urge in any business venture, but at EPS we believe this could not be achieved at all costs. Therefore we often make contributions to community programmes in areas where we do business.

## **5. BROAD-BASED BLACK ECONOMIC EMPOWERMENT AND EQUAL EMPLOYMENT OPPORTUNITIES**

EPS is an equal opportunity consultancy that offers equal opportunities to all employees irrespective of race, colour, gender or creed with a strategy to give people the opportunity to develop themselves.

We believe that true democracy can only occur when people are empowered to participate in civil society. To make this possible, EPS seeks opportunities to undertake employment programs as an integral part of the projects with which it is involved.

At EPS we believe that our competitiveness and long term success depend fundamentally on the skills and commitment of our employees. The business will therefore strive to have in place a variety of training, development and career advancement programs, which enhance the contributions, made by all its employees.

The company supports the reconstruction and development programme. We participate in MIG projects as Consulting Engineers but also engage in the development of people from previously disadvantaged communities.

Although only a small business entity, EPS contributes to the socio-economic transformation of South Africa in its adoption of the principles and requirements of Broad-Based Black Economic Empowerment (BBBEE). The company is currently a Level 4 contributor in terms of the Construction Sector scorecard.

## **6. STAFF INFORMATION**

EPS work force is comprised of highly qualified engineers, technologists and technicians with diversified educational backgrounds.

We not only enlarge our knowledge through networking with other companies and individuals but also create a supportive base to ensure that our clients are always exposed to the best expertise available.

EPS staff have advanced qualifications in their field and possess professional registrations. In addition to strong academic credentials, EPS staff members have many years of applied engineering experience.

EPS strive to create enthusiasm and willingness to participate in the growth and progress of our industry and our country.

Registration:

EPS Consulting Engineers is registered with the following professional bodies:

- Engineering Council of South Africa
- South African Institution of Civil Engineering

## **EPS PERSONNEL:**

DIRECTOR / ENGINEER:	W ENGELBRECHT
ENGINEERS:	P VAN RENSBURG S DU PREEZ
CIVIL TECHNICIAN:	S GEISSLER
DRAUGHTSMAN:	T VAN DER BANK
ADMINISTRATION:	Y DIEDERICKS S ENGELBRECHT S VAN JAARVELD

## **DIRECTOR**

### **Willie Engelbrecht**

Willie is a Professional Engineer with a B. Eng. degree in Civil Engineering and a B. Eng. (Hons) in Transport. He has more than 12 years lecturing experience both at the University of Pretoria and the Technikon Pretoria. He was a senior lecturer in traffic and transportation as well as head of the Civil Engineering Department.

In 1984 Willie started his own consulting business, providing a wide range of co-ordinated services in planning and design of traffic, transportation, water supply, storm water, waste water and structural services.

### Employment History

Willie established Engelbrecht and Partners in 1987 to provide extensive engineering consultancy services. They expanded their services into other areas and changed the company's name in 1997 to EPS (Engineering Planning Services) with head office based in Rustenburg.

#### BKS Consulting Engineers, CSIR and Moll Wigget Consulting Engineers

Willie gained his experience in transportation at BKS and the CSIR, where he was responsible for transportation and geometric design, planning of various streets and highways, traffic research and rural transport.

During 1984 to 1987 Willie did consulting work for Moll Wigget. His main responsibilities were the design of Civil Engineering Services and Storm water systems.

#### University of Pretoria and Technikon Pretoria (1979 and 1981 - 1992)

Willie was a junior lecturer in construction and traffic engineering at the University of Pretoria in 1979. In 1981 he started as senior lecturer at the Technikon Pretoria. He was promoted to head of the Department of Civil Engineering. As head of the Transportation department and due to his excellent performance track record, he was nominated as national examination for the MDip Tech subjects.

#### Department of Water Affairs (1977)

Willie was involved in projects at the Department of Water Affairs, ranging from project management to the construction of Grootdraai Dam and cannel system.

## Community Involvement

Other key events outside Willie's job functions included Chairperson of a Student Council (1975), Member of Research development committee SA (1986), Chairperson of the Rustenburg Chamber of Business (1997-1998), Chairperson of the N4 Forum (1998), Chairperson of the Board of Trustees of the Greater Rustenburg Community Foundation (2001- 2009) and Chairperson of School's Executive Committee. Apart from taking his professional career seriously, he regards himself as a well-balanced person who is involve in various church and school activities.

## **ENGINEERS**

### **P. Janse van Rensburg**

#### Qualifications

Paul is a Professional Engineer, qualified with a B. Eng. Degree in Civil engineering from the University of Johannesburg in 2009.

#### Experience

Paul started his career as a Civil Engineering student at Rural Integrated Engineering in 2007 and was responsible for the design and management of small scale water harvesting and irrigation projects in the rural areas of Mpumalanga, Kwa-Zulu Natal and Limpopo provinces.

After graduation Paul joined Civil Consult Consulting Engineers in January 2010. He was responsible for project management, planning, design and construction supervision of several private residential developments as well as provincial roads, municipal infrastructure projects and bulk infrastructure projects for Rand Water. During his 2-year employment at Civil Consult Consulting Engineers Paul was also responsible for conducting of engineering surveys of flood plains and the determination of flood lines parallel to various rivers and water courses.

Paul joined WSP Civil and Structural Engineers for a period of 19 months where he fulfilled the positions of junior resident engineer for a 90km fibre-optic network installation in Rustenburg and resident engineer (roads and storm water) for the Azuri mixed Land use Development in Mauritius.

Paul then Joined EPS Consulting Engineers in June 2013 where his responsibilities include planning, design and construction supervision of several residential developments, as well as provincial roads, municipal infrastructure projects and other civil engineering related works.

### **S. du Preez**

#### Qualifications

B.Eng. (Civil Engineering), University of Pretoria, 2014

#### Experience

Simeon qualified with a B.Eng. degree at the University of Pretoria in 2014. During his studies he gained experience at various engineering companies including Aurecon, G4 Civils

and Tshwane's department of water and sanitation. His experience included both practical contracting work as well as research based work on hydro turbines.

He started his career as a Civil Engineer at EPS Consulting Engineers and continues his employment as a Civil Engineer, with his responsibilities of planning, design and construction supervision of several private residential developments, as well as provincial roads, municipal infrastructure projects and other civil engineering related works.

## **TECHNICIANS AND CO-WORKERS**

### **S Geissler**

#### Qualifications

T4 National Diploma (Civil Engineering)

#### Experience

Steve started his career with VKE Consulting Engineers in Pretoria as a student in 1979. He qualified with a National Diploma at Pretoria Technicon at the end of 1982. He started in Secunda, doing supervision on site on various Municipal Services Projects. In 1983 he moved to Pretoria for a major Road project and in 1984 to Rustenburg where he did various projects for Royal Bafokeng Administration. In 1989 he started an office for VKE in Phokeng and acted as office manager until 1999. He joined Van Rensburg & Associates Consulting Engineers as Contracts Manager until the end of 2003. In 2004 he was self-employed and started with EPS Consulting Engineers in 2005 as Contracts Manager.

## **BURSARIES / TRAINING**

Students from Universities and the Development Bank are frequently employed to complete their practical training at EPS. They are exposed to civil designing, inspections, Project Management and other project consulting services within the firm. They are trained and guided in all the above mentioned fields of expertise.

## **7. SERVICES**

EPS is committed to meeting the challenges of the next century by providing world class engineered solutions based on a thorough understanding of client's needs. The firm aims to be judged on the level of enhancement it provides to its clients' businesses and to produce a service which is environmentally sound and beneficial to society.

EPS has provided co-ordinated services in master planning and design of water supply, storm water, waste water, traffic, transportation, structural and electrical services for projects in South Africa and neighbouring states.

## **TRAFFIC AND TRANSPORTATION**

Traffic analysis and transportation engineering are two of the fastest growing client services. EPS has a substantial background of experience in the detailed investigation, design and application of all aspects of traffic engineering practice. This work extends to an extensive involvement with projects ranging from feasibility studies and traffic impact studies through to transportation planning.

EPS was appointed as Traffic Engineers for the Rustenburg Local Municipality for a period of three years.

EPS strives to solve transportation problems through research in transfer technology and to develop diverse human resources to meet the transportation challenges of tomorrow.

The firm offers a selected range of services and fields of specialisation in traffic engineering, traffic management and transportation planning including:

- Feasibility studies
- Traffic impact studies
- Parking studies
- Transportation studies
- Public transport
- Travel demand forecasting
- Traffic engineering
- Maintenance inspections and reports
- Automated computer design and plan preparation

## **ROADS AND STORM WATER**

EPS specialises in the design and construction management of new facilities as well as modifications to existing facilities to achieve economically and environmentally sound solutions to client concerns. In-house expertise is available in the areas of:

- Roads- and storm water design - rural and urban
- Pavement engineering
- Drainage engineering and systems design
- Hydrology
- Storm water management

## **WATER RESOURCES AND SUPPLY**

A properly engineered system is essential for private developers, public water authorities and municipalities responsible for delivering an uninterrupted, consistent supply of clean water. The experience of EPS is unsurpassed in every aspect of water related engineering.

EPS is able to cost-effectively assess and respond to client needs by drawing upon our expertise for:

- Water resource studies
- Water treatment and process designs
- Reclamation and recovery
- Water reticulation
- Pipelines
- Reservoirs
- Pump stations
- Dams and canals
- Hydraulics
- Water supply and distribution systems

## **WASTEWATER CONTROL**

An area in which EPS excels is the treatment of municipal and industrial wastewater to minimise their environmental impact and achieve compliance with regulations. Expertise is available in the areas of:

- sewage reticulation
- low cost sanitation
- pumping stations
- sewage treatment
- sludge management,
- infiltration/inflow studies
- sewer and manhole rehabilitation.

## **STRUCTURAL ENGINEERING**

EPS aims to provide our clients with cost effective and appropriate structural solution with dedication and a high level of supervision. The areas in which we focus is:

- Foundations for small buildings and houses
- RC structures
- Steel frame structures
- Masonry structures
- Foundations and general building in challenging conditions
- Water holding structures – pump stations

## **8. COMPUTER RESOURCES**

Productivity is maximised through highly specialised software for many technical and non-technical applications. EPS has carefully chosen software that not only increases productivity, but also ensures that quality and service are not compromised.

EPS strategy for successful implementation of these applications is to maintain substantial computer resources.

EPS uses advanced analytical software to assist with the design and engineering process. Software is utilised by EPS engineers and designers to assist with analyses.

Computers are used routinely for non-technical applications as well, including word processing, accounting, record keeping, invoicing, payroll, marketing publications and proposal preparation.

## **9. RELEVANT PROJECTS EXECUTED BY MEMBERS OF EPS:**

### **Provision of Civil Engineering Infrastructure including roads, storm water, water reticulation and sanitation systems.**

#### **Municipal infrastructural services provided in the Rustenburg area includes the following residential developments:**

Cashan extensions 6, 7, 8, 10, 14, 16, 17, 21, 22, 24, 25, 26, 30, 32, 33, 37  
Safari Gardens extensions 6, 12, 15  
Waternal East extensions 1, 4, 6, 12, 13, 14, 16, 19, 20, 21, 26, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 31, 50, 52, 53, 54, 56, 28, 59, 60,61, 63, 64, 66  
Waterkloof East extensions 5, 7, 12, 27, 28, 34, 35, 43, 57  
Boschdal extensions 3, 5, 6, 7, 8  
Geelhoutpark extension 6, 8, 10  
Boitekong extensions 12, 24, 30  
Waterkloof Hills extensions 1, 3, 4 & 5  
Maseve Housing Project  
Tierkloof Estate

#### **Municipal infrastructure designed for the following Golf Estates**

Wigwam, Zuickerboshfontein, Millvale, Waterkloof Hills

#### **Low cost and RDP housing projects varying from civil infrastructure, water provision, sanitation and structures for the following towns with a total of 15 000 units**

Saselamane 1500 units, Mtititi 1500 units, Morokolong 1000 units, Ramotse 1000 units, Fumane 1500 units, Maubane 2000 units, Greenside 1000 units, New Eersterus 1000 units, Dilopey 1000 units, Mogogelo 1000 units, Hala Project including Ndonga, Lemoen, Ceyena, Stoney Croft, Greyspan Ntlalo Ntle and Hala 2610 units.

#### **Municipal infrastructural services provided in other areas:**

Little Lodge Centurion, Golden Harvest Magaliesburg, Eldorette Centurion, Swartkop 7 Centurion, Medunsapark Acacia, Olievenhoutbosch Gauteng, Malelane Mpumalanga, Grootvlei Town, Lenasia Shops, Mkuze Town, Northam Majuteng Town 387 units, Tuscany Spruit Brits, The Kingdom Holiday Resort Sun City, Meerhof Hartebeespoort Dam, Buffelspoort ATKV Resort, Kumbangana Resort, De Grooteboom Project, Moonooi 6, Boschpoort, The Islands 196 Hartebeespoort

#### **Municipal Infrastructure for non residential developments:**

Rustenburg Square, Waternal East X 4 Mabe Park, Waterfall East X 7 Motor City, Cashan X 17 Platinum Square, Erf 220 KFC and Burger King, Waternal East 55 Industrial Park, Waternal East 54 Mercedes Benz and BMW , ZR Transport

## **Traffic and Transportation Engineering projects including Traffic Impact Studies, Master Plans and Transport Plans. Upgrading of road systems and**

### **Traffic Impact Studies**

Various studies in including studies in the following areas: Four Ways, Bramley Park, Elton Hill, Claremont, Palmland, Roseville, Randburg, Madadeni, Springs, Swavelpoort, Woodmead, Lanseria, Northam, Marikana and Rustenburg

### **Filling Station Assessments**

Filling station feasibility and traffic related matters in: Garsfontein, Helderkruin, Hestea Park, Kyalami, Lone Hill, Mansfield, Moloto, Orange Farm, Boshhoek, Soshanguve, Wierdapark, Northam and Rustenburg

### **Traffic Signal Design for Intersections**

Various traffic signal designs in Rustenburg

### **Assessment of Traffic Impact Studies**

As appointed traffic engineer for the Rustenburg Local Municipality, a substantial number of evaluations were done on Traffic Impacts Assessments and site Traffic assessments submitted to the Rustenburg Local Municipality.

### **Other**

Other studies includes the preparation of road masterplans, Integrated transport plans, modal transfer nodes and taxi ranks, etc.

## **Structural projects executed by members of the EPS team range from residential, commercial and industrial projects and also includes office buildings, radio masts and churches.**

### **Residential projects:**

A substantial number of residential projects were done from RDP housing to multi story units.

### **Radio Masts:**

EPS was involved with the role out of the radio masts project managed by Infracom on behalf of Telkom and Vodacom. Our work focussed on foundation design and monitoring of construction.

### **A number of factories were designed and erected under the supervision of EPS including:**

PH De Waal, Wiehahn Construction, Druid, Elwierda Busses, Hermanstad, Sunderland ridge, Formquip, East-West Construction, Pennyville, Silverton dale, Pakamisa, F&R, SADF, Carparks, and Botswana Government.

### **Churches and Schools**

Erasmia, Rietvallei, Montana, Baptist, Boons, Rustenburg, St Martins and St Dominic's

### **Commercial Developments, Offices and Filling Stations:**

Centurion, Warmbaths, Pongola, Sebokeng, Standerton, Mooinooi, Soshanguve, Hartebeespoort, Pietersburg, Onderstepoort, Swavelpoort, K68, K8, Rustenburg Square, @Office, De Dak, etc.