

### Company Profile :

**Trinamics Civils Business Trust** is an associated member of Trinamics Consulting Engineers offering specialised Consulting Civil Engineering services. Fields of expertise include amongst others:

- Site Investigations and Feasibility Studies
- Township internal services (Water, Sewer, Streets & Storm Water)
- Bulk Water infrastructure
- Bulk Sewage Systems including Pump Stations
- Roads and Transportation
- Parking areas including basement parkings
- Storm water Systems including Attenuation measures
- Bulk Earth works including Building platforms
- Tender documentation and evaluation
- Master Planning
- Project Management
- Construction Supervision

These services are backed by more than 30 years of proven experience and skills to meet the changing needs of today's and tomorrow's clients. The key personnel of the company is recognised as specialists in low cost housing, engineering services and earth works design and optimization.

The company has a well-established client portfolio, including public- and private sector clients. The company has good relations with various Local Municipalities, parastatals, provincial as well as central government departments e.g. Gautrans and Sanral.

Although the company is self sufficient, active relationships and joint ventures are established in cases where projects are too large or perceived to be too large by the client, or where expert input is required for portions of the work. The latter include Structural engineering, Transportation engineering, Environmental consultants, Town- and regional planners, Geotechnical engineers and scientists, Land surveyors, etc.

The company carries Professional Indemnity Insurance from Leppard underwriting (P51 001725). Key personnel are registered with various professional bodies including the Engineering Council of SA (ECSA).

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**Trinamics Civils Business Trust :**  
Reg no : IT 3428/2012

**Petrus de Kock** Pr Tech (Eng) M Dip Tech (Road and Transport) MIPET

083 450 2400

**In Association with :**

**Trinamics Structures :**

Jannie Bosman Pr Eng BSc(Eng) BEng(Hons)(Structures) MSAICE MSAISC

083 450 2395

Paulo da Silva Pr Tech (Eng) (PSAT)

083 381 4069

**Waycross Consulting :**

Straffen Short Pr Eng BEng(Civil) BEng(Hons) MEng(Transportation) MSAICE MIMIESA

083 450 2398

**Invision :**

Shane Jeffrey Pr Tech (Eng) BTech (Eng) HDip Business Management MIPET MSAICE

083 457 8915



**Heidelberg Mall :**











## Civil Works :







## **Key Personnel:**

### **Petrus Johannes de Kock** *Pr Tech (Eng) (Managing Director)*

*M Dip Tech (Road and Transport) M IPET*

*Pr Tech Reg No: 9170106*

Obtained a Masters Diploma in Technology (Road and Transport) at the Technikon Pretoria in 1988 and registered as Professional Technologist in 1991. Employed by *Christo van der Merwe & Partners* from 1981 in the Vanderbijlpark and Randburg offices until 1994. Join *Crous Wolff and Associates* in Westville as associate from 1994 to 1997. Founder director of the empowerment company *Motswedi Engineering Services* in 1998. Director of *Trinamics Consulting engineers* from 2005 until 2012. Founder director of *Trinamics Civils Business Trust* in 2012.

Vast experience of over 35 years in the design, optimization and implementation of civil engineering projects; ranging in size from services for small townhouse projects to services for mega townships of 18,000 stands. Further noteworthy disciplines include Bulk and Link services (Water, Sanitation & Roads), mass earthworks and platforms, parking areas, access roads, storm water management and Bulk earthworks for large shopping centres and other pertinent buildings. Extensive experience on computer aided design (CAD), specializing in Ally Cad, Civil Designer as well as other engineering software

### **Jannie Bosman** *Pr Eng – Structural Engineer*

*B.Sc Eng (Civil) B.Eng (Hons) (Structural Eng) M SAISC M SAICE M IMIESA Registered with NHBRC*

Graduated in 1976 at the University of Pretoria and in 1983 obtained an Honours degree in Structural Engineering. Employed by Iscor 1977 to 1980 involved in computer aided structural modeling, analysis and design, project management, construction management and project planning. Seconded to consulting engineers and involved in designing heavy machine foundations and heavy industrial buildings. Joined *Christo van der Merwe & Partners Consulting Engineers* in 1981 as structural engineer responsible for the design of bridges, water retaining structures, coal bunkers, multi-storey buildings, light and heavy industrial buildings, heavy foundations, a 50 000 seat sport stadium and indoor sport facilities. He also served as resident engineer for the construction of a heavy industrial plant. He was appointed director in 1986 and Managing Director of *Trinamics Engineers* in 1999.

### **Samuel Straffen Short** *Pr Eng – Civil & Traffic Engineer*

*B.Eng (Civil) B.Eng (Hons) (Transportation Eng) M.Eng (Transportation Eng) M SAICE M IMIESA*

Graduated in 1984 at the University of Pretoria. Joined the South African Railways in Pietermaritzburg as Assistant Engineer and later District Engineer where he was involved in heavy on-track machine maintenance contracts. Did post-graduate studies in Transportation Engineering at the University of Pretoria. Joined *Christo van der Merwe & Partners Consulting Engineers* as design Engineer in 1989. Research fellow at VIAED 1991. Appointed director of *Trinamics Inc.* 1998 in charge of civil design office, responsibilities include analysis, design, project management and implementation of urban infrastructure and transportation related projects.

**Shane Jeffrey** *Pr Tech (Eng – Civil Engineer*

*NDipl.Eng (Civil) NH Dipl. (Business Management) B.Tech. Eng. (Urban Engineering)  
M IPET M SAICE*

Obtained a National Diploma in Civil Engineering in 1993. Completed a National Higher Diploma in Business Management in 1995 and obtained a B.Tech degree in 1997. Joined the company in 1994 where he was appointed as a junior designer. At present he is a senior designer and project leader in several projects where he is involved in the planning, designing and implementation of these projects including low and high cost housing, sewer pump stations, water and sewer networks, determination of flood lines for rivers and channels, the design and supervision of roads, parking areas and mass earthworks.

**Paulo Jorge da Silva** – *Structural Technologist*

*NDipl.Eng (Civil) (DMS D ProjM), PrSArchT*

Obtained a National Diploma in Civil Engineering in 1993. Joined Trinamics in 1994 as Junior Technician. Involved in the design of several multi-storey buildings in concrete, pre-stressed concrete slabs, structural steel frames, renovations for multi-storey buildings, water retaining structures, thatched gumpole structures, timber floors and concrete raft foundations. Uses Prokon and CAD design software. Handles Project Management for several building contracts.



## Recent Past and Current Projects


(Main projects of key personnel):

Year	Project	Description	Contact person
1997 - 2008	Alveda Ext 1 & 2 (Johannesburg)	<u>Residential development</u> (1,200 units): Water & Sewer reticulation. Roads & Storm Water infrastructure. Sewer pump station & Rising Main.	Newhco: Mr Cornel Mulder 082 414 5733  Mr. Christo vd Merwe 083 459 0506
1997 - Current	Naledi Industrial Township (Sasolburg)	<u>Industrial development</u> (110ha): Water & Sewer reticulation. Roads & Storm Water infrastructure. Major roads.	Welgelegen: Mr. Siggie Düvel 082 492 5214
2004 - 2006	Sicelo Shiceka Sebokeng x24 Tshepiso x3	<u>RDP residential developments</u> (5,000+ stands): Water & Sewer reticulation. Roads & Storm Water infrastructure. Beneficiary administration.	Gauteng Dept Housing: 011 355 4610 (Mr. Lou Toerien)
2005 - 2012	Sharpeville Precinct	<u>Civil Engineering work</u> on various projects: Sharpeville Memorial. Sharpeville Library. Sharpeville Exhibition Centre. Constitutional Walk. Phelindaba Cemetery.	Sedibeng District Council: Mr Robert Thema 082 936 2520
2006	Clotan Steel (Vanderbijlpark)	<u>Industrial development</u> : Bulk Earth works for new buildings (80,000m <sup>2</sup> ) Roads & Storm Water infrastructure. Water & Sewer reticulation.	Clotan Steel: Chris Badenhorst 016 986 8050
2007 - Current	Savanna City (Midvaal)	<u>Residential development</u> (20,000+ units): Water & Sewer reticulation. Sewer pump stations & Rising Mains. Bulk Sewer outfall line (2,5km). Bulk Water supply (6,0km)	Basil Read Developments: Mr. Johann Pieterse 082 601 9883
2008	DB Thermal (Nigel)	<u>Industrial development</u> : Bulk Earth works for new heavy engineering factory buildings (14,000m <sup>2</sup> ) Roads & Storm Water infrastructure. Water & Sewer reticulation.	SPX: 011 236-6337 Phillip Fourie
2008	Lenasia Pipe Replacement	<u>Water reticulation upgrade</u> Pipe Replacement with emerging contractors. (13 Contractors)	Joburg Water: 011 688 1654 (Mr. Bharat Gulab)
2010	K174 / Muir Str Intersection (Vanderbijlpark)	<u>Bulk road upgrade</u> . New intersection on K174 provincial road. Gautrans intersection & Traffic signals.	Mr. Johan Geldenhuis 082 900 9668

Year	Project	Description	Contact person
2011	River Walk Shopping Centre (Vereeniging)	<u>Retail development:</u> Bulk Earthworks for new building platform with basement and parking area (19,000m <sup>2</sup> ) Bulk Roads & Storm Water infrastructure. Parking area and Basement Storm water drainage system.	Mr. Peter Sowter 082 467 6092
2011 - 2012	DCD Dorbyl Ringrollers (Vereeniging)	<u>Industrial development:</u> Bulk Earthworks for new heavy engineering factory building platforms (20,000m <sup>2</sup> ) Heavy Roads & Storm Water infrastructure. Industrial Water & Sewer reticulation.	DCD Dorbyl: Mr. Stephan Nel 083 625 5221
2010 - 2011	Heidelberg x25 Phase 1	<u>Industrial / Retail development:</u> Roads & Storm Water infrastructure Storm water attenuation Water & Sewer reticulation	Marble Gold: Mr. Jaco Coetzer 082 333 1555
2012 – 2015	Heidelberg x25 Phase 2	<u>Bulk road upgrades.</u> Gautrans & Sanral intersection with underpass bridges Main Roads & Storm Water infrastructure Water & Sewer reticulation	Marble Gold: Mr. Jaco Coetzer 082 333 1555
2012	Eskom (Letabo Power Station)	<u>Sewer Maturation Ponds:</u> Upgrading of existing and Construction of New Maturation ponds	Eskom: Mr. Wynand Volschenk Mr. Gys Barnard 083 628 8098
2012 - 2015	Alveda Ext 2 & 4 (Johannesburg)	<u>Residential development:</u> Water & Sewer reticulation Roads & Storm Water infrastructure	Cosmopolitan: Mr. Anton Crouse 082 322 7400
2013	Blue Skies	<u>New Warehouse &amp; Cooling Plant:</u> Bulk Earthworks Water & Sewer infrastructure Roads & Parking Storm Water	Ds. Andre Veldsman 083 290 6713
2014	Vaaldriehoek LewenSentrum	<u>New Church development for VLS:</u> Bulk Earthworks Water & Sewer infrastructure Roads & Parking Storm Water	Ds. Marius Malan 082 804 0436
2014 - 2015	Setrade	<u>Road rehabilitation &amp; Upgrade:</u> Reconstruction of Provincial roads in Parys, Free State Province	G & V: Mr. Bach Gertenbach 082 578 9881
2012 - 2013	Dreunberg & Linde PV Farms (Northern Cape)	<u>PhotoVoltaic Power Generating Plant:</u> Roads and Storm Water infrastructure Road Access	Lead EPC Contractors: Mr. Hennie Engela 083 284 6260
2014	Katsina PV Farm (Nigeria)	<u>PhotoVoltaic Power Generating Plant:</u> Civil Engineering planning Detail Engineering Design	Lead EPC Contractors: Mr. Hennie Engela 083 284 6260



2015 - Current	Lilongwe PV Farm (Malawi)	<u>PhotoVoltaic Power Generating Plant:</u> Civil Engineering planning Detail Engineering Design	Lead EPC Contractors: Mr. Hennie Engela 083 284 6260
2015 - Current	Tororo PV Farm (Uganda)	<u>PhotoVoltaic Power Generating Plant:</u> Civil Engineering planning Detail Engineering Design	Lead EPC Contractors: Mr. Hennie Engela 083 284 6260
2007 – 2014	Thaba Mall (Thabazimbi)	<u>Shopping Centre (18,000m<sup>2</sup>):</u> Bulk Earthworks External Roads Upgrades Traffic Signals Roads & Parking Areas Civil Infrastructure	Chestnut Hill Investments: Mr. Andries du Plooy 083 603 4360
2013 – 2014	Heidelberg Mall (Heidelberg)	<u>Regional Shopping Centre (40,000m<sup>2</sup>):</u> Bulk Earthworks Concrete Retaining Walls Dry Stack Retaining Walls Roads & Parking Areas Civil Infrastructure Major External Roads Upgrades Traffic Signals	Flanagan & Gerard: Mr. Pat Flanagan 083 265 5649
2013 - Current	Blue Skies (Balfour)	<u>New Warehouse &amp; Cooling Plant:</u> Fresh Produce - Fruit juice processing plant: Bulk Earthworks Water & Sewer infrastructure Roads & Parking Storm Water	Blue Skies: Mr. Andre Veldsman 083 290 6713

CURRICULUM VITAE		
<b>Name</b>	:	<b>DE KOCK, Petrus Johannes [Mr]</b>
Physical Address	:	16 The Greens Sullivan Street SW5 Vanderbijlpark
Postal Address	:	PO Box 3146 Vanderbijlpark 1900
Tel	:	(016) 932 0013 (h) 083 450 2400 (c)
Fax	:	086 694 0026
E-mail	:	<a href="mailto:pdk@trinamics.co.za">pdk@trinamics.co.za</a>
Date of Birth	:	25 September 1961
Nationality	:	South African
Sex	:	Male
Identity No	:	610925 5019 08 8
Marital Status	:	Married with three children
Languages	:	Afrikaans (Excellent both spoken and written) English (Excellent both spoken and written)
Religion	:	Reborn Christian
		



## ACADEMIC QUALIFICATIONS

### Senior Certificate

Parys High School (1979)

### National Higher Diploma (Civil Engineering)

Vaal Triangle Technikon (1983)

### Masters Diploma in Technology (Road and Transport)

Pretoria Technikon (1998)

## PROFESSIONAL MEMBERSHIP

Registered as a Professional Technologist in 1991 (Reg No 9170106)

Member of Engineering Council of South Africa (ECSA)

Member of Institute of Engineering Technologists of South Africa (IPET)

## PROFESSIONAL WORKING EXPERIENCE

### 2012 to Present -Trinamics Civils

After the unbundling of Trinamics Consulting Engineers, Mr. de Kock established a new enterprise, ***Trinamics Civils Business Trust*** through which he can focus his experience and dedication to detail, with the backup of his association with Trinamics Consulting Engineers.

*Trinamics Civils* specialises, amongst others, in the design and implementation of following:

- Site Investigations and Feasibility Studies
- Township internal services (Water, Sewer, Streets & Storm Water)
- Bulk Water infrastructure
- Bulk Sewage Systems including Pump Stations
- Roads and Transportation
- Parking areas including basement parkings
- Storm water Systems including Attenuation measures
- Bulk Earth works including Building platforms
- Tender documentation and evaluation
- Master Planning
- Project Management
- Construction Supervision

### 2004 to 2012 -Trinamics Consulting Engineers

During 2004 he was appointed as Director of *Trinamics Consulting Engineers*. Duties involved were the following:

- Assistance in the day to day running of the company.
- Design Technologist of various infrastructure projects.
- Contract administration of various projects.

- Bulk earthworks design of large factory sites.
- Planning and design of Bulk Water and Sewer schemes.
- Planning and design of Main roads and Storm Water schemes.

The company was unbundled in 2012 in order to open new windows of opportunities to the directors.

#### 1998 to 2004 - Motswedi Engineering Services (Pty) Ltd

Founder director of the empowerment company *Motswedi Engineering Services*. Duties involved were the following:

- Assistance in setting up new company structures.
- Design Technologist for various infrastructure projects.
- Resident Engineer on housing project.
- Management of company.

The company closed down in 2004.

#### 1994 to 1997 - Crous Wolff and Associates in Westville

Join the consulting engineering company *Crous Wolff and Associates* in Westville as an associate from 1994 to 1997. Duties involved were the following:

- Design Technologist for various infrastructure projects.
- Resident Engineer on large housing projects.
- Design Technologist for various mass earthworks projects.

#### 1992 to 1994 – Christo van der Merwe & Partners

From 1992 to 1994 he was seconded to *Christo van der Merwe Nortier and Partners*, the Randburg offices of the company. Duties involved were the following:

- Design Technologist for various infrastructure projects.
- Site administration of projects under construction.
- Design of storm water management systems.

#### 1981 to 1992 – DVVM Consulting Engineers

Employed by DVVM Consulting Engineers from 1981 to 1992 in the Vanderbijlpark office. His career was moulded through mentorship by various Engineers and Technologist in the company from a freshmen student to a qualified Professional Technologist. His duties involved were amongst others the following:

- Design Technician for various fields of Civil Engineering Services as well as roads and storm water projects.
- Survey for design as well as quality control purposes.
- Measuring of quantities and compilation of tender documents.
- Site supervision on various construction sites.
- Site administration.



## **OTHER ACHIEVEMENTS**

- In the past, Mr de Kock has from time to time made himself available as a Part Time Lecturer at the Vaal University of Technology. He continuous to be a moderator of various subjects. By donating time and effort, he invested from his experience and knowledge into the future of Technicians and the Civil Engineering Industry.

## **TRAINING COURSES AND CONFERENCES**

- Civil Designer Course – Design Centre, Survey, Terrain & Sewer
- AllyCad

## **REFERENCES**

- Mr Christo van der Merwe – (083 459 0506)
- Mr Johann Pieterse – Basil Read Developments (082 601 9883)
- Mr Hennie van der Merwe – VDM Architects (082 418 3690)
- Mr Jaco Coetzer – Masakhane Projects (082 333 1555)
- Mr Robert Thema - Sedibeng District Council (082 936 2520)
- Mr Pat Flanagan – Flanagan & Gerard (083 265 5649)
- Ds Marius Malan – Vaaldriehoek LewenSentrum (082 804 0436)

## **HOBBIES**

- Photography
- Travelling