

CURRICULUM VITAE

ROBERT DE VRIES (PR ENG)

SENIOR DESIGN AND RESIDENT ENGINEER



Email: robert@dvaconsult.co.za
Address: Mosselbaai, South Africa
Web: www.dvaconsult.co.za

Date of Birth: 22 September 1960
Nationality: South African

SUMMARY

Robert has 36 years in the consulting civil engineering industry where he gained extensive experience in engineering fields while working for some of the largest consulting engineering companies in South Africa.

His work experience involves:

- Hydrology studies required for the stormwater drainage design of roads (urban, rural, and open cast mines), railways, and bridges which include:
 - road surface drainage (drains, channels, chutes, etc.),
 - road cross drainage (minor, major culverts, and low water crossings),
 - subsurface drainage,
 - flood lines calculations and bridge hydraulics.
- Feasibility studies, reports, costing and tendering, contract documentation, and tender reports.
- Project and quality management based on the ISO 9001: 2008,
- Construction administration, management, and monitoring.

For the last 8 years, Robert worked as the Resident Engineer on construction projects.

Robert has also worked on projects in the following SADC countries: South Africa and Namibia. Mozambique and Zambia.

EDUCATION

1987, BEng (Civil), University of Stellenbosch, South Africa

REGISTRATION/CERTIFICATIONS

- Engineering Council of South Africa (ECSA), Pr Eng No 950 010
- Member of the Association of Arbitrators Southern Africa (Membership No. 3875). Registered Arbitrator.

YEARS OF EXPERIENCE

36 Years

COUNTRIES OF WORK EXPERIENCE

South Africa, Namibia, Mozambique & Zambia

LANGUAGES

	SPEAKING	READING	WRITING
ENGLISH	Excellent	Average	Good
AFRIKAANS	Excellent	Average	Good

PROFESSIONAL EXPERIENCE

COMPANY: KNIGHT PIESOLD CONSULTING ENGINEERS

POSITION: SENIOR DESIGN ENGINEER AND RESIDENT ENGINEER

March 2023- to Date	Project:	Contract No. NRA N-002-200-2016/3F: N2 Wild Coast toll Highway Section 20 between the Msikaba River and the Mtentu River bridge
	Client:	SANRAL
	Position:	Structures Resident Engineer
	Activities Performed:	<ul style="list-style-type: none"> • Construction Administration • Management and monitoring
	Project Value:	± 5 billion
Jan 2022- to Date	Project:	Contract No. 297Q/2020/21: Construction of the Makhaza Transport Facility in Khayelitsha
	Client:	City of Cape Town - Transport
	Position:	Resident Engineer
	Activities Performed:	<ul style="list-style-type: none"> • Construction Administration • Management and monitoring
	Project Value:	±R 19 000 000.00
Jan 2021- to Dec 2021	Project:	Contract No. C1123: Periodic Maintenance of TR35/1 from Beaufort West (km 2.59) to Aberdeen (km 58.00)
	Client:	Western Cape Government
	Position:	Resident Engineer
	Activities Performed:	<ul style="list-style-type: none"> • Construction Administration • Management and monitoring
	Project Value:	±R 54 000 000.00
March 2020- to Dec 2020	Project:	Contract No. 4Q/2019/20: Rehabilitation of Giel Basson Drive between National Route N1 Voortrekker Road
	Client:	City of Cape Town
	Position:	Resident Engineer
	Activities Performed:	<ul style="list-style-type: none"> • Construction Administration • Management and monitoring
	Project Value:	±R 44 000 000.00
Apr 2019- Feb 2020	Project:	Contract No. 321Q/2017/2018: Rehabilitation of Jan Van Riebeeck Drive between Epping Avenue and Voortrekker Road in Parow
	Client:	City of Cape Town
	Position:	Resident Engineer
	Activities Performed:	<ul style="list-style-type: none"> • Construction Administration • Management and monitoring
	Project Value:	±R 21 300 000.00
Jan 2015- To Date	Project:	Contract NRA N-002-200-2016/3F: N2 Wild Coast toll highway Section 20 between the Msikaba River and the Metentu River bridge

Client: SANRAL
 Position: Senior Design Engineer
 Activities Performed: • Hydrology and Stormwater drainage design
 Project Value: ±R 1 Bil

Nov 2018-May 2019 **Project:** **Contract No. 218Q/2014/15: Stock Road – Govan Mbeki to R300: Rehabilitation and provision of NMT and IRT Infrastructure.**

Client: City of Cape Town
 Position: Resident Engineer (only for last 7 months)
 Activities Performed: • Construction Administration
 • Management and monitoring
 Project Value: ±R 165 000 000.00

Apr 2016-Oct 2018 **Project:** **Contract No. 115Q/2015/16: Rehabilitation of various roads in Bishop Lavis**

Client: Cape Town TDA
 Position: Resident Engineer
 Description: Rehabilitation of various roads in Bishop Lavis
 Activities Performed: • Construction administration
 • Management and monitoring
 Project Value: ±R 109 103 794.10

Nov 2015-March 2016 **Project:** **Contract No. C1042: Reseal of Trunk Road 20 from Matjiesfontein (km 0.00) to Northern Cape Border (42.70)**

Client: Provincial Government Western Cape
 Position: Resident Engineer
 Description:
 Activities Performed: • Construction Administration
 • Management and monitoring
 Project Value: ±R 40 621 613.73

COMPANY: NWE CONSULTING ENGINEERS PTY LTD

POSITION: TECHNICAL DIRECTOR

June 2011 - Oct 2015 **Project:**

Client: Kumba Iron Ore
Position: Project Manager
Project Description: • Design and Construction of Haul Road and Retaining Structure at Leeuwfontein Pit at Kolomela Mine
Assigned Tasks: Stormwater drainage at the permanent western haul road entering the Leeuwfontein Pit and surface stormwater drainage management
Project Value: ±R 24 000 000.00

Mach 2006-May 2011 **Project:** **SNA Civil & Structural Engineers Pty Ltd**

Client: Road Development Authority of the Government of Mauritius

Position: Design Manager

Description: Mauritius Road Decongestion Programme- Bid

Activities Performed:

- Hydrology, stormwater drainage design
- Cost estimates
- Documentation and quantities

Project Value: ±R 4.5 Mil

Project: **Contract NRA R.071-020-2011/1 - National Route R71, Section 2 between Tzaneen (km 0.00) to Gravelotte (km 55.2)**

Client: SANRAL

Position: Stormwater Design Manager

Assigned Tasks:

- Hydrology
- Stormwater drainage design
- Cost estimates
- Documentation and quantities

Project Value: ±R 87 000 000.00

Project: **Contract No. NRA R.040-020-2006/1 - Reconstruction of National Route R40 Section 2 from Hilltop (km 13.94) to Barberton (km 39.32)**

Client: SANRAL

Position: Stormwater Design Manager

Assigned Tasks:

- Hydrology
- Stormwater drainage design
- Cost estimates
- Documentation and quantities

Project Value: ±R 300 000 000.00

Project: **Contract NRA R.071-010-2010/1F - The Reseal of National Route R71 Section 1 from Polokwane (km 6.00) to Boyne (km 39.545)**

Client: SANRAL

Position: Stormwater Design Manager

Project Description: The Reseal of National Route R71 Section 1 from Polokwane (km 6.00) to Boyne (km 39.545)

Assigned Tasks:

- Hydrology
- Stormwater drainage design
- Cost estimates
- Documentation and quantities

Project Value: ±R 88 000 000.00

Project: **Contract NRA N.004-070-2008/1 - Construction of the P154-7 Link Road between Valencia and the N4 Nelspruit Northern Ring Road (4.55km)**

Client: SANRAL

Position: Stormwater Design Manager

Project Description: Construction of the P154-7 Link Road between Valencia and the N4 Nelspruit Northern Ring Road (4.55km)

Assigned Tasks:

- Hydrology

- Stormwater drainage design
- Cost estimates
- Documentation and quantities

Project Value: R 120 000 000.00

Project: **Contract NRA R.071-010-2009/1 - The partial Reconstruction of National Route R71 Section 1 from Polokwane (km 39,0) to Tzaneen (km 88,0) (49km)**

Client: SANRAL
Position: Stormwater Design Manager
Project Description: The partial Reconstruction of National Route R71 Section 1 from Polokwane (km 39,0) to Tzaneen (km 88,0) (49km)
Assigned Tasks:

- Hydrology
- Stormwater drainage design
- Cost estimates
- Documentation and quantities

Project Value: ±R 362 000 000.00

Project: **National Route 2 Section 14 from Km 5,05 to Keiskamma Pass (km 31,67). Bridges over the Ganusha and Gwangha Rivers.**

Client: **SANRAL**
Position: Stormwater Design Manager
Project Description: Improvement of National Route 2 Section 14 from Km 5,05 to Keiskamma Pass (km 31,67). Bridges over the Ganusha and Gwangha Rivers.
Assigned Tasks:

- Hydrology
- Stormwater drainage design
- Cost estimates
- Documentation and quantities

Project Value: ±R 134 000 000.00

Project: **The Gauteng Freeway Improvement Project (GFIP)**

Client: SANRAL
Position: Stormwater Design Manager
Project Description: The Gauteng Freeway Improvement Project (GFIP)
- Contract NRA N.001-200-2008/1 for Work Package A1: National Route 1 Section 20 from Golden Highway to 14th Avenue
- Contract NRA N.012-180-2008/1 for Work Package A2: National Route 12 Section 18 from Diepkloof to Uncle Charlie's
Assigned Tasks:

- Hydrology
- Stormwater drainage design
- Cost estimates, documentation and quantities

Project Value: ±R 1.3 Mil

Project: **Trans African Concessions (TRAC)**

Position: Stormwater Design Manager

Project Description:	Preliminary and Detail Design of the N4-7X road section (MDC 10) between Mara intersection (km 74) up to Crocodile River (km 90.05)
Assigned Tasks:	<ul style="list-style-type: none"> • Hydrology • Stormwater drainage design • Cost estimates, documentation and quantities
Project Value:	±R 350 000 000.00

Project:	National Route 18 Section 1
Client:	SANRAL
Position:	Stormwater Design Manager
Project Description:	National Route 18 Section 1: The Construction of a Bridge and Associated Road Works Across the Vaal River at Warrenton
Assigned Tasks:	<ul style="list-style-type: none"> • Hydrology • Stormwater drainage design • Cost estimates, documentation and quantities
Project Value:	±R 83 000 000.00

Project:	Gautrain Rapid Rail Link: Package DD5A: Depots and Package DD5B: Civil Works
Client:	Bombela
Position:	Stormwater Design Manager
Project Description:	Gautrain Rapid Rail Link: Package DD5A: Depots and Package DD5B: Civil Works
Assigned Tasks:	<ul style="list-style-type: none"> • Hydrology • Stormwater drainage design • Cost estimates, documentation and quantities
Project Value:	DD5A: 1,1M / DD5B: 1,2M

Sep 2003 – Feb 2006	Project:	Bicon Namibia Consulting Engineers Pty Ltd / Windhoek - Namibia
	Client:	Roads Authority of Namibia
	Position:	Senior Engineer
	Project Description:	Revision of the Oshikoto, Oshana, Omusati, Ohangwena and Kavango Roads Master plans
	Assigned Tasks:	<ul style="list-style-type: none"> • Project Management, • Designs and documentation
	Project Value:	
	Client:	Municipality Walvis Bay
	Position:	Project Manager
	Project Description:	Preliminary planning, alignment and conceptual design for the new Entrance Road into Walvis Bay
	Assigned Tasks:	<ul style="list-style-type: none"> • Project Management, • Designs and documentation

Client: Roads Authority of Namibia
Position: Project Manager
Project Description: Trans-Kalahari Highway Extension: Gobabis to Grootfontein Link Road (± 210km)
Assigned Tasks:

- Project Management,
- Designs and documentation

Project Value: R 750 000 000.00

Client: Roads Authority of Namibia
Position: Project Manager
Project Description: Detail design, documentation, contract management and site supervision for the construction of the Opuwa to Cape Fria Road (± 280km). Technical and financial bid
Assigned Tasks: Project Management, designs and documentation

Client: Roads Authority of Namibia
Position: Project Manager
Project Description: Detail design, documentation, contract management and site supervision for the construction of the Opuwa to Cape Fria Road (± 280km). Technical and financial bid
Assigned Tasks: Project Management, designs and documentation

Jan 2003 – Aug 2003	Company	Madan Singh & Associates Consulting Engineers (Office closed due to cancellation of SANRAL project)
	Client:	Department of Roads and Public Works
	Position:	Project Manager (Office Manager)
	Project Description:	Upgrading of District Road DR08022 (25km) from the N2 (near Qumbu) to Sulenkama
	Assigned Tasks:	<ul style="list-style-type: none"> • Hydrology and stormwater drainage designs, • Quantities and documentation
	Project Value:	R 264 000 000.00

Nov 2001 – Dec 2002	Company	Bicon Zambia Ltd Consulting Engineers (Siavonga – Zambia)
	Client:	Government of the Republic of Zambia, Ministry of Works and Supply Roads Department, funded by World Development Bank
	Position:	Resident Engineer
	Project Description:	Periodic maintenance of the M15 Road from the T2 Main Road to the Kariba Dam Gate Road
	Assigned Tasks:	<ul style="list-style-type: none"> • Construction administration, • Management and monitoring
	Project Value:	R 148 761 800.00

May 2001 – Oct 2001	Company	Kayad Consulting Engineers
	Client:	SANRAL
	Position:	Senior Design Engineer
	Project Description:	Proposed N21 (R300) Cape Town Ring Road Toll Project
	Assigned Tasks:	<ul style="list-style-type: none"> Hydrology and drainage designs Quantities and documentation
	Project Value:	R1,2M
	Client:	Cape Town City Council
	Position:	Senior Design Engineer
	Project Description:	Mitchells Plain Public Transport Interchange for Minibus-Taxis, Busses and Rail
	Assigned Tasks:	<ul style="list-style-type: none"> Public liaison (taxi associations), Traffic studies and reports, Geometric layouts, Hydrology, Stormwater drainage designs, Quantities and documentation
	Project Value:	R 51 000 000.00
March 1999 – Apr 2001	Company	ASCH Consulting Engineers
	Client:	Sun International
	Position:	Senior Design Engineer
	Project Description:	Grandwest Casino and entertainment world
	Assigned Tasks:	<ul style="list-style-type: none"> Hydrology and drainage designs, Quantities and documentation
	Project Value:	R 360 000 000.00
	Client:	SANRAL
	Position:	Senior Design Engineer
	Project Description:	The upgrading of 20km of National Route 2 Section 9: Tsitsikamma to Witelsbos
	Assigned Tasks:	<ul style="list-style-type: none"> Hydrology and stormwater drainage designs, Quantities and documentation
	Project Value:	R 240 000 000.00
	Client:	Sun International
	Position:	Senior Design Engineer
	Project Description:	Main Access Interchange on Vanguard Drive for Grandwest Casino and Entertainment World
	Assigned Tasks:	<ul style="list-style-type: none"> Hydrology and stormwater drainage designs, Quantities and documentation

Project Value: R 80 000 000.00

Client: **City of Cape Town Council**

Position: Senior Design Engineer

Project Description: Ocean View Public Transport Facilities (taxi rank and bus stop)

Assigned Tasks:

- Hydrology, geometric and stormwater drainage designs,
- Quantities and documentation
- Part time construction monitoring and administration

Project Value: R 3 000 000.00

Client: **City of Cape Town Council**

Position: Senior Design Engineer

Project Description: Reconstruction of existing unpaved Lochiel Road in Sunnyside, Kommetjie

Assigned Tasks:

- Hydrology, geometric and stormwater drainage designs,
- Quantities and documentation
- Part time construction monitoring and administration

Project Value: R 3,2M

March 1988 – Jan 1999 **Project:** **BKS Consulting Engineers Pty Ltd (Joined AECOM in August 2012)**

Client: DNEP (Mozambique)

Position: Senior Design Engineer

Project Description: Rehabilitation design of Road EN 201 (56km) between Salamanga and Ponta do Ouro in the Maputo Province of Mozambique (Worked at the offices of Profabril in Maputo)

Assigned Tasks:

- Hydrology, geometric and stormwater drainage designs.
- Cost estimates, reports, documentation and preparing of BOQ's

Project Value: R 4 000 000 000.00

Client: **City of Cape Town Council**

Position: Senior Design Engineer

Project Description: Construction of Durban Road Corridor, South of N1 (Phase 1)

Assigned Tasks:

- Hydrology and stormwater drainage designs as well as reports,
- Documentation and preparing of BOQ's

Project Value: R 21 000 000.00

Client: **West Coast Peninsula Council**

Position: Senior Design Engineer

Project Description: Construction of Civil Engineering Services for 45 residential erven in Smartie Town at Stompneusbaai (St Helena)

Assigned Tasks:

- Hydrology, stormwater drainage and sewerage designs
- Reports, documentation and preparing of BOQ's

Project Value: R 400 000.00

Client:	West Coast Peninsula Council
Position:	Senior Design Engineer
Project Description:	Construction of civil engineering services for 34 residential erven on erf 10752 (Pebble Beach) at Saldanha
Assigned Tasks:	<ul style="list-style-type: none"> Hydrology, stormwater drainage and sewerage designs Reports, documentation and preparing of BOQ's
Project Value:	R 300 000.00
Client:	West Coast Peninsula Council
Position:	Senior Design Engineer
Project Description:	Construction of the Vredenburg Southern Bypass at Vredenburg, Class E (ii) dual Carriageway
Assigned Tasks:	Hydrology and stormwater drainage designs as well as reports, documentation and preparing of BOQ's
Project Value:	R 20 000 000.00
Client:	City of Cape Town Council
Position:	Senior Design Engineer
Project Description:	Design of the Nyanga Station Transport Interchange (Eastern Side)
Assigned Tasks:	<ul style="list-style-type: none"> Hydrology and stormwater drainage designs Reports, documentation and preparing of BOQ's
Project Value:	R 9 000 000.00
Client:	City of Cape Town Council
Position:	Senior Design Engineer
Project Description:	Design of Mowbray station transport interchange
Assigned Tasks:	<ul style="list-style-type: none"> Hydrology and stormwater drainage designs Reports, documentation and preparing of BOQ's
Project Value:	R 11 000 000.00
Client:	Lambertsbaai Municipality
Position:	Senior Design Engineer
Project Description:	Construction unpaved roads and Civil Engineering Services for 141 residential erven on a portion of erf 168 at Lamberts Bay
Assigned Tasks:	<ul style="list-style-type: none"> Hydrology, stormwater drainage and sewerage designs Reports, documentation and preparing of BOQ's
Project Value:	R 980 000.00
Client:	West Coast Peninsula Council
Position:	Senior Design Engineer
Project Description:	Construction of Civil Engineering Services for 128 residential erven on a portion of Erf no 948 at Paternoster, West Coast, South Coast
Assigned Tasks:	<ul style="list-style-type: none"> Hydrology, stormwater drainage and sewerage designs Reports, documentation and preparing of BOQ's

Project Value:	R 840 000.00
Client:	West Coast Peninsula Council
Position:	Senior Design Engineer
Project Description:	Construction of paved roads, stormwater system and upgrading of existing sewer reticulation network for 249 residential erven in Ongegund (Erf 8524) at Vredenburg
Assigned Tasks:	<ul style="list-style-type: none"> • Hydrology, stormwater drainage and sewerage designs • Reports, documentation and preparing of BOQ's
Project Value:	R 1,7 Mil
Client:	West Coast Peninsula Council
Position:	Senior Design Engineer
Project Description:	Construction of Civil Services and Roads for Louwville Housing Development (900 residential erven) at Vredenburg
Assigned Tasks:	<ul style="list-style-type: none"> • Hydrology, stormwater drainage and sewerage designs • Reports, documentation and preparing of BOQ's
Project Value:	R 7 000 000.00
Client:	SANRAL
Position:	Senior Design Engineer
Project Description:	National Route 1 (Du Toitskloof) Section 1 and 2 Huguenot Tunnel eastern Portal to Florence: Underpass
Assigned Tasks:	<ul style="list-style-type: none"> • Hydrology and stormwater drainage designs • Reports, documentation and preparing of BOQ's
Project Value:	R 11 000 000.00
Client:	Ceres Municipality
Position:	Senior Design Engineer
Project Description:	Construction of Civil Services and Roads for Bella Vista and Nduli residential developments (600 erven) at Ceres
Assigned Tasks:	Hydrology, stormwater drainage and sewerage designs as well as reports, documentation and preparing of BOQ's
Project Value:	R 6.5 000 000.00
Client:	Paarl Municipality
Position:	Resident Engineer
Project Description:	The Construction of the Huguenot Bypass (1.5km) in the Paarl and rehabilitation of bridge joints (Palmiet River) for the Huguenot Bypass in Paarl
Assigned Tasks:	Construction administration, management and monitoring
Project Value:	R 12 000 000.00
Client:	Provincial Administration Western Cape

Position: Senior Design Engineer
Project Description: Trunk Road 2 Section 1. Design of single slope precast median barrier (10km) between Nyanga Rail Overpass and Swartklip Interchange
Assigned Tasks:

- Hydrology and stormwater drainage designs
- Reports, documentation and preparing of BOQ's

Project Value: R 10 000 000.00

Client: Provincial Administration Western Cape
Position: Senior Design Engineer
Project Description: Reconstruction of a 47km section of Trunk Road 31, Section 1 between Worcester and Robertson
Assigned Tasks:

- Hydrology, stormwater drainage and sewerage designs
- Reports, documentation and preparing of BOQ's

Project Value: R 45 000 000.00

Client: Provincial Administration Western Cape
Position: Senior Design Engineer
Project Description: Trunk Road 2, Section 1. Widening and Rehabilitation of 6km from Black River Parkway to Vanguard Interchanges
Assigned Tasks:

- Hydrology, stormwater drainage and sewerage design
- Reports, documentation and preparing of BOQ's

Project Value: R 50 000 000.00

Client: SANRAL
Position: Design Engineer
Project Description: National Route 1 (Du Toitskloof). Sections 1 and 2 Huguenot Tunnel eastern Portal to Florence. New split level dual carriageway
Assigned Tasks:

- Hydrology, stormwater drainage designs
- Reports, documentation and preparing of BOQ's

Project Value: R 127 000 000.00

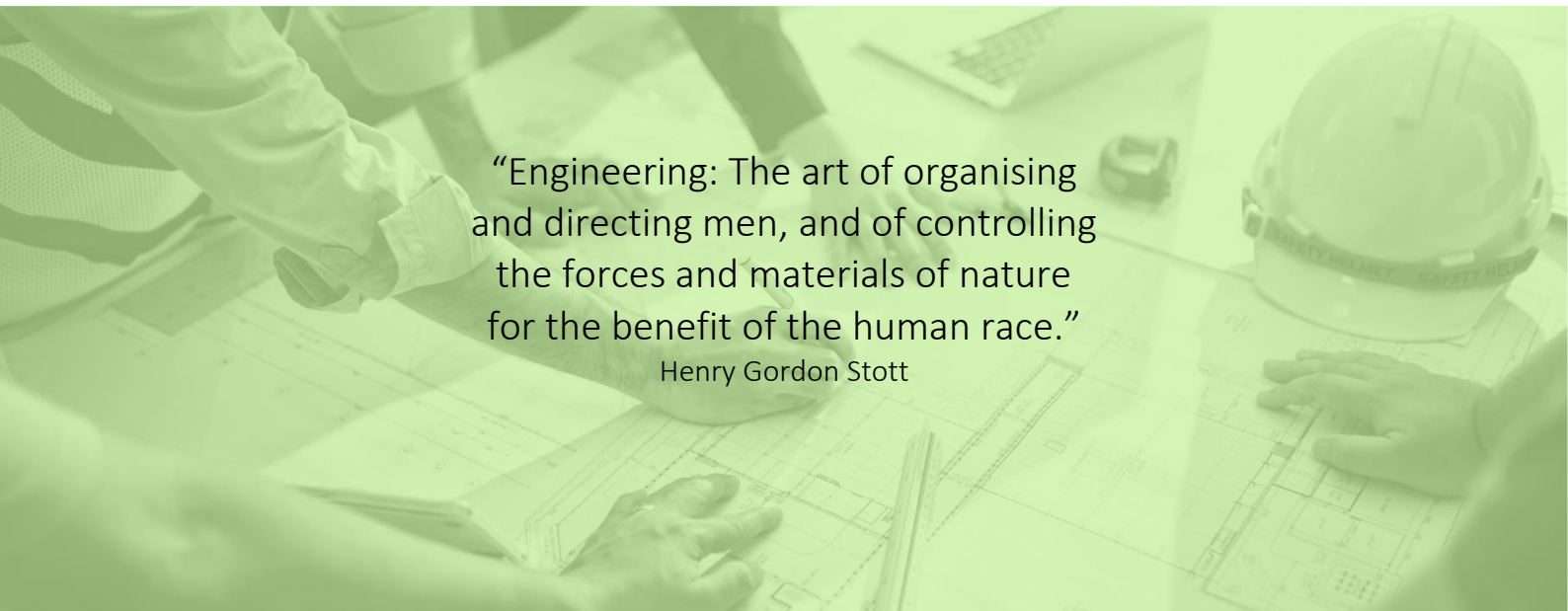
Client: Provincial Administration of the Cape of Good Hope
Position: Assistant Resident Engineer
Project Description: The Construction of Subgrade, Subbase base course, bituminous surfacing, bridge and supplementary works on 41 km of trunk road No 41 between Bruitjieshoogte and Cookhouse
Assigned Tasks:

- Construction monitoring of drainage structures and surveying of quantities

Project Value: R 41 000 000.00

WORK HISTORY

DATES	COMPANY NAME	POSITION
Nov 2015 - Date	Knight Piésold Consulting, South Africa	Resident Engineer
June 2011 - Oct 2015	NWE Consulting Engineers (Pty) Ltd	Technical Director Head: Roads and Transportation Division
Mar 2006 - May 2011	SNA Civil and Structural Engineers (Pty) Ltd	Stormwater Design Manager
Sep 2003 - Feb 2006	Bicon Namibia (Pty) Ltd	Senior Design Engineer
Jan 2003 - Aug 2003	Madan Singh & Associates, Consulting Engineers	Office Manager (East London)
Nov 2001 - Dec 2002	Bicon Zambia (Ltd), Consulting Engineers	Resident Engineer (Siavonga – Zambia)
May 2001 - Oct 2001	Kayad Consulting Engineers	Senior Design Engineer
Mar 1999 - Apr 2001	ASCH Consulting Engineers	Senior Design Engineer
Mar 1988 - Jan 1999	BKS (Pty) Ltd (joined AECOM in August 2012)	Senior Design Engineer



“Engineering: The art of organising
and directing men, and of controlling
the forces and materials of nature
for the benefit of the human race.”

Henry Gordon Stott