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CURRICULUM VITAE

IAN DEALE

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PERSONAL DETAILS

Surname	Deale
First Names	Ian
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Nationality	South African
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Professional Registration	Pr.Sci.Nat. (SACNASP) 400185/06
Affiliations	SAIEG – Member South African Institute of Engineering Geologists ISEEG – Member International Society of Explosives Engineers

EDUCATION

Qualifications

2000	BSc (Geology) University of Pretoria
2001	BSc Hons (Engineering Geology) University of Pretoria

CAREER SUMMARY

March 2008 – Current	Rockland Geoscience (Pty) Ltd, Pretoria <i>Engineering Geologist, Director</i>
December 2004 – February 2008	Africon Engineering International (Pty) Ltd, Pretoria <i>Engineering Geologist</i>
January 2002 – November 2004	Council for Geoscience, Pretoria <i>Engineering Geologist</i>

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SELECTED EXPERIENCE

Project Name	Dorstfontein Coal Mine East Pit 2 Highwall
Duration	November 2019 - ongoing
Client	Eire Contractors (through Exxaro Resources)
Location	Kriel, Mpumalanga Province, South Africa
Project Value	ZAR 22m
Description	Geotechnical investigations for new 45 – 65m high, 800m long, highwall and monitoring of drilling and blasting works thereof.
Role	Engineering geologist responsible for fieldwork, analyses and joint reporting.
Project Name	Karino N4 Interchange Link Road West,
Duration	March 2020 - ongoing
Client	Raubex (through ARQ Geotech)
Location	Mbombela, Mpumalanga Province, South Africa
Project Value	ZAR 200m
Description	Geotechnical and rockfall hazard investigations for a 100m long road cutting and 400m long mechanically stabilised earth wall adjacent to the new Link Road West of the new Karino N4 Interchange
Role	Engineering geologist responsible for: joint fieldwork, analyses and reporting.
Project Name	DSV Park
Duration	September 2019 - ongoing
Client	DSV
Location	Witfontein, Ekurhuleni, Gauteng Province, South Africa
Project Value	ZAR 1bn
Description	Construction material evaluations
Role	Engineering geologist responsible for field work, joint analyses and reporting
Project Name	Mokopane Booster Pump Station
Duration	August 2019 - ongoing
Client	Curo Pumps
Location	Mokopane, Limpopo Province, South Africa
Project Value	ZAR 5m
Description	Phase 1 geotechnical investigation for new booster pump station at site 11 km north of Mokopane
Role	Engineering geologist responsible for field work, joint analyses and reporting
Project Name	Venetia Mine Sewage Treatment Works
Duration	July – August 2019
Client	WSP Group Africa
Location	Venetia Diamond Mine, Alldays, Limpopo Province, South Africa
Project Value	Est. ZAR 20m
Description	Geotechnical investigation for new sewage treatment plant.
Role	Engineering geologist responsible for field work, joint analyses and reporting
Project Name	Wispeco Casting Pit
Duration	January – July 2019
Client	Wispeco Aluminium
Location	Alrode, Alberton, Gauteng Province
Project Value	ZAR 50m
Description	Drilling and blasting consulting services for excavation of 12m deep by 4m diameter shaft adjacent to existing Wispeco Alrode works.
Role	Engineering geologist responsible for preparation of drilling and blasting specification and technical adjudication of tenders
Project Name	Ghana IWAD Weirs
Duration	February 2019 - ongoing
Client	Agricane
Location	Yagaba, Republic of Ghana
Project Value	ZAR 100 000 fee
Description	Preliminary site investigation for new irrigation scheme at confluence of White Volta and Kulpawn Rivers
Role	Engineering geologist responsible for field work, joint analyses and reporting
Project Name	JRA House
Duration	February to March 2019
Client	WSP Group Africa
Location	Florida Hills, Roodepoort, Gauteng Province, South Africa
Project Value	ZAR 30 000 fee
Description	Phase 1 geotechnical investigation to determine cause of cracks in residential property.
Role	Engineering geologist responsible for field work, joint analyses and reporting

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Project Name	Kibali Gold Mine, Azambi Hydro Electric Project
Duration	October 2017 – December 2018
Client	Barrick Gold (formerly Randgold Resources)
Location	Kibali, Democratic Republic of the Congo
Project Value	USD 50m
Description	Drilling and blasting consulting services for weir, headrace canal, power house and tail race to new hydro-electric project on the Kibali River near Kibali Gold Mine.
Role	Site manager responsible for collecting data, preparing blast designs, technical assistance to drilling and blasting
Project Name	Rustenburg Platinum Mines, Precious Metals Refinery, Ladies Change House
Duration	January – February 2018
Client	Anglo Platinum (through LMJ Consulting)
Location	Rustenburg, North-West Province, South Africa
Project Value	ZAR 30 000 fee
Description	Phase 1 geotechnical investigation for new single storey ladies change house.
Role	Engineering geologist responsible for field work, joint analyses and reporting.
Project Name	Tzaneen Dam Demolitions
Duration	May – December 2017
Client	Blackhead Consulting
Location	Tzaneen, Limpopo Province, South Africa
Project Value	ZAR 50m
Description	Monitoring of drilling and blasting works as part of demolition works at Tzaneen Dam carried out in preparation of raising of dam wall.
Role	Site representative responsible for site inspections, data collation and review
Project Name	Khumani Iron Ore Mine, Dirty Water Tank Foundation
Duration	September 2017 - ongoing
Client	Assmang Limited
Location	Kathu, Northern Cape Province, South Africa
Project Value	ZAR 50 000 fee
Description	Geotechnical investigation of cracks in shotcrete lining surrounding tank foundation including test pits, DCPs and CSW tests.
Role	Engineering geologist responsible for field work, joint analyses and reporting.
Project Name	Lakeside Towers, new head office for Exxaro Resources
Duration	April – July 2017
Client	Growthpoint Properties (through AECOM)
Location	2 West Rd (across from Gautrain Station), Centurion, Gauteng Province. South Africa
Project Value	ZAR 468m
Description	Monitoring of drilling and blasting works for new 10 storey building on dolomite.
Role	Engineering geologist responsible for review and approval of blast designs, compliance monitoring to blast designs and blast monitoring for and on behalf of employer.
Project Name	Sunti Sugar Project
Duration	March 2016
Client	Agricane
Location	Nigeria
Project Value	USD 50m
Description	Geotechnical investigation of bulk water supply works for new 4,700ha sugar development on Niger River including 10km canals and four pump stations.
Role	Engineering geologist responsible for field work, joint analyses and reporting.
Project Name	Leeu Gamka Dam
Duration	January to March 2016
Client	The Geotechnical Hub
Location	Leeu Gamka, Western Cape
Project Value	ZAR 230 000 fee
Description	Geotechnical investigation on dam stability
Role	Engineering geologist responsible for field work, joint analyses and reporting.
Project Name	Kibali Gold Mine, Ambarau Dam
Duration	June to August 2016
Client	Barrick Gold (Formerly Randgold Resources)
Location	Kibali, Democratic Republic of the Congo
Project Value	USD 57m
Description	Drilling, blasting and geotechnical mapping consulting services for new 20m high hard fill gravity dam constructed as part of hydro-electric power project on the Kibali River near Kibali Gold Mine.
Role	Engineering geologist responsible for field mapping, blast design and monitoring.
Project Name	Linksfield Netcare Hospital Upgrades

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Duration	July – September 2015
Client	Netcare (through Greene Consulting)
Location	Linksfeld, Edenvale, Gauteng Province, South Africa
Project Value	ZAR 50m
Description	Geotechnical investigations for upgrades to existing hospital.
Role	Engineering geologist responsible for field work, joint analyses and reporting.
Project Name	Medupi Power Station, FGD Rail Siding and Bulk Materials Handling
Duration	October 2014 – March 2015
Client	Eskom Enterprises
Location	Lephalale, Limpopo Province, South Africa
Project Value	Est. ZAR 2bn
Description	Geotechnical investigation of rail siding, lime and gypsum stockyards and materials handling infrastructure
Role	Engineering geologist responsible for field work, joint analyses and reporting.
Project Name	Rand Water Sinkhole Rehabilitation
Duration	September 2014
Client	Rand Water
Location	Claudius, Gauteng Province, South Africa
Project Value	ZAR 150 000 fee
Description	Dolomite stability and phase 1 geotechnical investigation for greenfield railway rolling stock manufacturing facility, carried out as part of site selection process.
Role	Engineering geologist responsible for client liaison, project management, field work, joint analyses and reporting.
Project Name	Tamboekiesfontein PRASA rolling stock manufacturing facility
Duration	November 2013 – February 2014
Client	Alstom
Location	Heidelberg, Gauteng Province, South Africa
Project Value	ZAR 150 000 fee
Description	Dolomite stability and phase 1 geotechnical investigation for greenfield railway rolling stock manufacturing facility, carried out as part of site selection process.
Role	Engineering geologist responsible for client liaison, project management, field work, joint analyses and reporting.
Project Name	Fuleni Anthracite
Duration	July 2014
Client	ARQ Consulting Engineers
Location	Richards Bay, KwaZulu Natal
Project Value	ZAR 70 000 fee
Description	Geotechnical investigation for 15km long road including construction material investigation.
Role	Engineering geologist responsible for field work, joint analyses and reporting.
Project Name	Malawi Irrigation Dams
Duration	September – November 2013
Client	GOPA Worldwide
Location	Malawi
Project Value	EUR 160 000 fee
Description	Geotechnical investigations undertaken of four earthfill irrigation dams as part of feasibility study.
Role	Engineering geologist responsible for joint field work, analyses and reporting.
Project Name	Neusberg Hydropower Project
Duration	October – November 2013
Client	CSV Construction
Location	Kakamas, Northern Cape Province, South Africa
Project Value	ZAR 577m
Description	Slope stability evaluation of headrace canal including field mapping, rock mass classifications according to Bieniawski's (1989) RMR and Barton et al's (1974) Q-system, and 2D finite element (Phase2) slope stability modelling.
Role	Engineering geologist responsible for project management, field work and joint reporting.
Project Name	Mayoko Iron Ore Project
Duration	February – July 2013
Client	Exxaro Resources
Location	Mayoko, Republic of Congo
Project Value	ZAR 200 000 fee
Description	Geotechnical investigation including drill supervision, core logging and soil profiling for railway loop extension and mine plant infrastructure
Role	Engineering geologist responsible for field work and reporting.
Project Name	Addax Bioenergy Project
Duration	February – April 2012
Client	Addax Bioenergy (through Kwembi Consulting)
Location	Makeni, Republic of Sierra Leone

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Project Value	EUR 267m
Description	Phase 1 geotechnical investigation of bulk water supply works for new sugarcane irrigation scheme for the production of biofuel including 7km of canals, six pump stations and six earthfill storage dams.
Role	Engineering geologist responsible for joint field work, analyses and reporting.
Project Name	Medupi Power Station Project (Formerly Project Alpha)
Duration	July 2008 – August 2011
Client	Eskom Enterprises
Location	Lephalale, Limpopo Province, South Africa
Project Value	ZAR 120bn
Description	Geotechnical site supervision and design verification of earthworks, major foundations and drilling and blasting works for new 4 800MW dry cooled coal fired power station and ancillary works.
Role	Engineering geologist responsible for quality control of engineered fills, rock mass classification of foundation footings to verify foundation design, ad hoc geotechnical investigations of various structures.
Project Name	Moatize, Nacala Railway
Duration	August 2011 – July 2012
Client	Vale (Through Africon Engineering)
Location	Mozambique
Project Value	ZAR 750 000 fee
Description	Geotechnical investigation for 900km long railway line.
Role	Engineering geologist responsible for site supervision over geotechnical investigation.
Project Name	Mototolo Conveyor
Duration	August 2011
Client	LMJ Consulting
Location	Steelpoort, Limpopo Province
Project Value	ZAR 40 000 fee
Description	Geotechnical investigation for upgrade of existing conveyor.
Role	Engineering geologist responsible for field work, joint analyses and reporting.
Project Name	Mmamabula Power Station Project
Duration	2006 - 2007
Client	Africon
Location	Botswana
Project Value	ZAR 40 000 fee
Description	Geotechnical investigation for power station infrastructure, roads and facilities
Role	Engineering geologist responsible for fieldwork and reporting.
Project Name	Gautrain Rapid Rail Link
Duration	2006
Client	Bombela Concession Company
Location	Pretoria, Gauteng
Project Value	ZAR 35b
Description	Geotechnical investigation of Package 6A for Gautrain rapid rail link
Role	Engineering geologist responsible for site supervision over geotechnical investigation.
Project Name	Moreleta Outfall sewer
Duration	2006
Client	Bigen Africa (through Africon)
Location	Pretoria, Gauteng Province
Project Value	ZAR 80 000 fee
Description	Geotechnical investigation of large diameter outfall sewer line.
Role	Team member responsible for fieldwork, analyses and reporting.
Project Name	Albany Coast Bulk Water Supply
Duration	Feb 2008
Client	Bigen Africa (through Africon)
Location	Grahamstown-Port Alfred, Eastern Cape Province
Project Value	Est. ZAR 50m
Description	Geotechnical investigation for 50km bulk water supply pipeline including reservoirs
Role	Team member responsible for fieldwork, analyses and reporting.
Project Name	Soyo Airport
Duration	November 2007
Client	Franki Africa (through Africon)
Location	Soyo, Angola
Project Value	USD 10 000 fees
Description	Geotechnical investigation and founding recommendation for expansion of existing airport facilities
Role	Team member responsible for fieldwork, analyses and reporting.

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Project Name	Intsika Yethu water supply pipeline
Duration	2005
Client	Africon
Location	Cofimvaba, Eastern Cape Province
Project Value	Est. ZAR 50m
Description	Geotechnical investigation for 65 km water supply pipeline
Role	Team member responsible for fieldwork, analyses and reporting.

SOFTWARE PROFICIENCY

- Dips, Slide, Phase 2, by RocScience
- Dotplot by Jones and Wagner
- Surfer by Golden Software
- Microsoft Office
- Split Desktop by Split Inc