CURRICULUM VITAE

Mario Venter

2018

PERSONAL DETAILS	
Surname:	**Venter**
Name:	**Mario**
Identity no:	**810930 5132 087**
Date of birth:	**30 September 1981**
Place of birth:	**Boksburg**
Gender:	**Male**
Marital status:	**Married**
Current Address:	**Midlands Estate** **18 Polva Dera Peak** **1692** **Postnet Suite 1141** **Private Bag X 1007** **Lyttelton 1141**
Contact details:	**Cell: +27 82 630 6587**
Email address:	**mario@consulmet.com** **marioventer36@gmail.com**
Nationality:	**South African**
Languages:	**Afrikaans and English**
Criminal offences:	**None**

PERSONAL PROFILE

- 14+ Mineral processing work experience
- Plant operational experience prior to studying metallurgical engineering at Tshwane University of Technology (2009).
- Process engineer with more than 10 years design experience in various mineral processing projects internationally.
- I have completed a BSc (Hons) Applied Science (Metallurgy) at the University of Pretoria (2015). I am currently busy with my MSc Applied Science Metallurgy at the University of Pretoria.

- I take pride in my work with a strong sense of ownership and accountability
- I have an in-depth understanding of metallurgical processes with excellent analytical skills
- I have a positive attitude in general and the ability to cope under stressful situations and work environment
- I am diligent, good work ethic and self-assertive
- I have been working in multi-cultural environments and adapt easily

EXPERIENCE AND CAREER HISTORY

2009-present:

Process Manager

Lead Process Engineer

SAIL Project – South Africa
- 240 t/h Chrome Beneficiation Plant
- Chromite Spirals
- PGM Flotation Plant

Jubilee Hernic Project – South Africa
- 85 t/h Tailings Treatment Plant
- Chromite Spirals
- High Intensity Fine Grinding Circuits
- 70t/h PGM Flotation Plant

Urquhart Point Mineral Sands Project - Australia
- 110 t/h HMS Beneficiation Plant
- Front end, 5 stage spiral plant and tailings discharge

Cronimet Chrome Mine Project – South Africa
- 125 t/h Chromite Recovery Plant
- Feeder arrangement, Impact crusher, screening and 7 stage spiral plant
- Product stacker cyclone units
- T-Type classifier unit for tailings treatment
- Tailings thickener and flocculant plant

ENRC Cu Spiral Plant – DRC
- 300 t/h Copper spiral plant
- Hydro-sort units with rougher stage spirals and product stacker cyclone system

Gecamines Cu Spiral Plant – DRC
- 150 t/h cu spiral plant
- Three stage spiral plant with product stacker system and tailings discharge

Sierra Rutile – Sierra Leone / Commissioning Engineer
- 500 t/h front end (scrubbing and classification)

	• 300 t/h 5 stage spiral plant • Product stacker cyclone system and tailings discharge **Tweefontein Chrome and PGM Project – South Africa** • 100 t/h Front end with scrubber, ball mill and screening • Coarse and fines spirals (four stage each) with hydro-sorts • Float feed thickener • 40 t/h PGM float plant • Associated float plant reagents and utilities (compressor and blower units) **Frances Creek Iron Ore Project – Australia** • 35 t/h Hematite Spiral Plant • Two stage spiral plant with product stacker and tailings discharge / complimented by DMS plant for the coarse fraction **Dilokong Chrome Plant Project – South Africa** • 100 t/h three stage spiral plant **BHP Billiton Mn Pilot Plant** • Test work campaign for new technology • Designed, built, commissioned and operated the pilot plant unit for the entire duration of the pilot plant campaign **Flocculant Plants:** • Process design and commissioning of flocculant plant for Koidu Diamond Project in Sierra Leone • Commissioning of flocculant plant for Firestone Diamonds in Botswana • Process work for new Contiflow Flocclant plant – Designed by Deon Boshoff. Commissioning of first unit supplied for the Cronimet Chrome Mine Project **Tulkubash DFS 42 t/h Gold Project Kyrgyzstan:** • Comminution • CIL • Elution • EW • Carbon regeneration and management • Reagents • Tailings disposal

2007-2009:	**Matomo Projects: Junior Process Engineer** • Uranium One – Radiometric Ore Sorter Project – South Africa **Chipoka Sands Heavy Mineral Sand Project – Malawi** • Managed rigorous test work campaign which formed part of my B-tech final year project. Test work conducted at the University of Pretoria **Peruke Pilot Plant Project – Anglo Research Laboratories – South Africa** • Part of the commissioning team on various circuits
2005-2008:	**Mintek – Student Work** • Idaho Copper & Cobalt bench scale pilot plant test work campaign • Kalakundi bench scale pilot plant test work campaign
2002-2004	**Skorpion Zinc: Commissioning Team Namibia** **Commissioning team - Comminution plant (ROM and Lime)** • Both crushing plants (primary, secondary and tertiary) • Stacker re-claimer • Both Milling circuits (ROM and Lime) • 50m Thickener feeding the leach plant **Supervisor on Zn SX Plant** • Solvent Extraction plant / Associated Carbon Columns • Reverse Osmosis Plant • Salt Saturator and HCl reactor • CRUD treatment plant

2001-2002	**International Metal Processing: Plant Operator** **Laboratory Operator** • Process Plant analysis on AAS **Plant Operator** • Atmospheric leach circuit (Iron Removal) • Copper and Cobalt precipitation circuits • Copper Sulphate Circuit

EDUCATION AND QUALIFICATIONS

Tertiary Education:	
• ***Degree***	***Baccalaureus Technologiae*** ***Engineering: Metallurgy*** ***Tshwane University of Technology 2009***
• ***Diploma***	***National Diploma*** ***Engineering: Metallurgy*** ***Tshwane University of Technology 2008***
• ***Honours Degree***	***BSc (Hons) Applied Science: Metallurgy*** ***University of Pretoria 2015*** - *Basic Extractive Metallurgy* - *Minerals Processing* - *Froth Flotation* - *Electrometallurgy*
Secondary Education:	***Hugenote High School. Matriculated 2000***
• ***Subjects:*** *(First Team Rugby Captain)*	*Afrikaans First Language* *English Second language* *Mathematics* *Physical Science* *Biology* *Business Economics*

PERSONAL MOTIVATION

I strive to be a well-balanced professional.

I continuously set goals for myself, professionally and privately, and pursuit them with passion and energy.

As for my technical acumen, I do believe I am well equipped considering my tertiary training and practical experience for any challenges encountered in the mineral processing industry.

I am a very loyal employee and will always ensure every decision I make is in the best interest of the company and my colleagues.

Punctuality is very important to me, mutual respect and team work forms part of my demeanour and personal culture. I will not settle for second best and strive for perfection especially in my work as I see it as a reflection of myself.

I am always willing to go the extra mile to achieve my goals and objectives, personally and professionally.

TYPICAL WORK EXPERIENCE

1. Develop process flow sheets based on previous experience, test work results and or literature studies
2. Develop process flow sheets (PFD's) and construct the associated mass and energy balances
3. Produce piping and instrumentation diagrams (P&ID's) for the design drawing office
4. Manage test work campaigns / technical decisions pertaining to the process

5. Equipment design calculations / Equipment sizing in conjunction with the suppliers
6. Selecting the most suitable material of construction (MOC) per project
7. Constructing mechanical equipment data sheets for RFQ
8. Process design calculations viz. retention times, deposition velocities, valve capacities (Cv), reagent plant sizing, compressor and blower sizing, Kelly & Spottiswood models for milling
9. VSMA method and Kelly & Spottiswood for screen sizing
10. Cyclone sizing using Plitt and Arterburn method
11. Produce control philosophy documents with associated function specification
12. Process Design Criteria (PDC) documents
13. Approve 3D model and 2D design drawings prior to detailing
14. Develop commissioning documents and philosophy: C1 – C4 with final handover documentation C5.
15. Commissioning Manager on more than 10 projects
16. Manage Chemical and Metallurgical Engineers (Process Engineers)
17. High degree of interaction with the design drawing office on a daily basis, technical process decisions
18. Facilitate and perform HAZOP studies
19. Provide process input to civil, structural and electrical design disciplines on each project
20. Exposure to all facets of mineral processing project, from environmental impact assessment, mining regime and associated geology, quality control, ergonomics, geotechnical studies, fabrication, installation and commissioning. Current company model based on lump sum turnkey (LSTK) project.