

Roelof Frederick

Maritz



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References

- **Adel Wilson**

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- **Adam Keuler**

(Director: Operations and Process Technologies)
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Summary

Undergraduate Process Engineering student at Stellenbosch University, obtaining a degree at the end of 2020. Seeking a position as a graduate engineer or junior engineer for 2021. Also interested in master's programs for either business studies or process engineering. Current academic record at an average of +80%, also a member of the Golden Key International Honour Society. Strong academic background supported by a year of industry experience.

Skill Highlights

- Chemical/Process Engineering
- Confident decision maker
- Versatile problem solver
- Workshop competency
- Innovative thinker
- Skilled collaborator
- Very fast learner

Education

- Bachelor of Engineering: **Process Engineering** - 2020
Stellenbosch University, RSA
- National Senior Certificate: **Die Hoërskool DF Malan** - 2015
Bellville, RSA

Experience

Vacation Worker - 06/2018 to 07/2018 and 11/2018 to 12/2018
PROXA Water, Paarl (South Africa)

- Taught myself how to code in VBA and used that knowledge to help set-up Excel sheets to streamline administration for chemical plants.
- Carried out site work on chemical plants alongside laboratory work for process optimization.
- Filled out official project documentation for hand-over to client.

Process Engineer Intern - 01/2019 to 12/2019
PROXA Water, Paarl (South Africa)

- Successfully assisted senior and junior process engineers with engineering design, commissioning, and R&D as part of project teams.
- Commissioned a chemical dosing skid at a process plant to conduct on-site trials of a novel process solution.
- Conducted an arduous month-long, paid experimental study which assisted my supervisor in compiling a proposal for a tender, worth approximately R2-million, which was later approved by the client.
- Carried out site work on chemical plants for routine maintenance, inspection, and process optimization.

Languages

- English (Home Language Proficiency)
- Afrikaans (Home Language Proficiency)

Personal Interests

- Woodworking
- Home renovation and DIY
- Antique shopping
- Reading
- Yoga
- Long distance running (5-10K)
- Squash
- Chess

Documents available upon demand

- Latest University Results
- National Senior Certificate
- Proof of Golden Key Membership
- Proof of former Mensa membership
- Proof of attending ISLP 2019 delegation to New Zealand
- Various honorary certificates obtained throughout high school

Notable achievements

- Member of Golden Key International Honour Society since 2017
- Member of Mensa, 2017 to 2019
- Student delegate for International Scholar Laureate Program's Delegation on Engineering and Technology to New Zealand for 2019
- Completed internship program at PROXA Water in 2019 with distinction
- Became amateur woodworker in 2016
- Taught myself how to swim at the start of 2019 and swam 400 m for a triathlon team for Xterra Lite in Feb 2019

- Performed tracking activities for process plants by compiling and analysing data.
- Completed standardized engineering drawings and documentation for medium-sized water plants.
- Performed numerous workshop activities ranging from pilot scale testing of RO and UF membranes to disposing of chemical waste.
- Successfully liaised with clients, suppliers, and contractors.
- Attended several costing and design meetings and also successfully communicated and collaborated with several members of the directing, engineering, and technical staff.

Engineering Student Delegate - 05/2019 to 06/2019

ISLP: Delegation on Engineering & Technology, New Zealand

- Completed a journey on my own from Cape Town to Dubai and finally on to Auckland. Travelled from there with the group to Christchurch and flew back through Sydney and Dubai to get back to Cape Town.
- Met, befriended, and collaborated with my fellow delegates who came from all over the world (USA, Canada, Australia, Cambodia, and Nigeria) within one week.
- Divided into groups consisting of people from different engineering backgrounds and given a week to identify a societal problem in New Zealand and an accompanying engineering solution for that problem.
- Spent a week performing site visits to: University of Auckland; Rakon (telecommunications); EPIC (community collaboration through digital technology); Invert Robotics; Syft Technologies (trace analysis); Christchurch Red Zone (earthquake relief and reconstruction); Wikihouse (open source housing solution).
- Presented a solution to the eutrophication of natural water sources in New Zealand caused by high density farming.

About Me

I am a curious and open-minded intellectual, eager to talk to everyone from all walks of life in order to learn from them. I value experience as the backbone of good judgement and thus I try to gain as much of it whenever I can. I am genuinely passionate about chemical engineering but more than that I am passionate about how chemical engineering integrates with all other forms of engineering and applied science.

I am a hard worker with the gift of independent and innovative thought. I have shown equal and sufficient competence in R&D, design, and operations support during my internship. I have the inherent ability to be trained to fulfil both project management and functional management positions. I am confident in these abilities and eager to develop my skill as I am given greater responsibilities.