

XANDRO DA SILVA

Undergraduate Chemical Engineer

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WORK EXPERIENCE

Chemical Engineering Intern

Octopi Solutions

Dec 2020 – Jan 2021 Faerie Glen, Pretoria

- Creation of a website.

Programming

Chemical Engineering Intern

Double Peak and Makomo Mine

Dec 2019 – Jan 2020 Fourways, Johannesburg

- Two weeks were spent in the coal mine and a further four weeks were spent in the office.
- A successful investigation was completed on the inefficiencies of the plant's bucket factor measuring system and an in-depth analysis of the DMS plant.
- Analysed and sorted data of the mine's yearly coal production.
- Development of a simple cost model of the DMS plant.
- A presentation and technical report on my findings were conducted, as well as recommendations for improvements and further investigations to be investigated in future.

Teamwork

Data Analysis

Cost Analysis

Report Writing

Teaching Assistant for FSK 116/176

University of Pretoria, Department of Physics

Feb 2020 – July 2021 Hatfield, Pretoria

- Planning and preparation of weekly physics practicals.
- Demonstration and teaching of the weekly practicals to the students.
- Marking of practical scripts and other administrative duties.
- Invigilation of final physics practical exam.

Planning

Teaching

Public Speaking

Communication

EDUCATION

Bachelor of Engineering (BEng) - Chemical Engineering

University of Pretoria

Feb 2016 – Dec 2021 Hatfield, Pretoria

Bachelor of Science (BSc) - Physics

University of Pretoria

Feb 2015 – Dec 2015 Hatfield, Pretoria

National Senior Certificate

Pretoria Boys High School

Jan 2010 – Dec 2014 Pretoria, Gauteng

PERSONAL PROFILE

I am a self-motivated individual driven by constant curiosity to learn and self-improve. A final year chemical engineering graduate seeking to use all the problem solving and technical skills harnessed during my undergraduate. I am passionate about technology, the economy and the environment. I believe these three passions should be integrated together in order to push society forward.

"Discipline equals freedom. "

SKILLS

Programming

Python

HTML

LaTeX

Software

Microsoft Office

ASPEN Plus

Open Modelica

Technical

Data Analysis

Process Simulation

Mathematical Modelling

Report Writing

Soft Skills

Emotional intelligence

Collaborative

Leadership

Responsible

CERTIFICATIONS

Tutor Training Course

University of Pretoria

Feb 2020