

XANDRO DA SILVA

Undergraduate Chemical Engineer

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WORK EXPERIENCE

Chemical Engineering Intern

Octopi Solutions

Dec 2020 – March 2021 Faerie Glen, Pretoria

- Introduction and learning of HTML5 and CSS2. Creation of my own personal profile website.
- Introduction, learning and employment of computer hardware, namely; Raspberry Pi 3 Model B, ESP32-CAM micro-processor and TTGO ESP32 micro-processor.
- Raspberry Pi and micropython coding languages.
- Construction and programming of a security camera system. Camera records a 10 second video, emails video and alerts homeowner.

Programming Software engineering Research

Chemical Engineering Intern

Double Peak and Makomo Mine

Dec 2019 – Feb 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.
- Data analysis 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 presented, as well as recommendations for future investigations to be conducted for a more accurate cost-analysis of the DMS plant.

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, Gauteng

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/CSS 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

VOLUNTEER WORK

Social Outreach

Pretoria Boys High School

Jan 2010 – Nov 2014

STARS Mentorship Programme

University of Pretoria

March 2021 – Dec 2021