

# CORNÉ LOURENS


## PERSONAL DETAILS

ID Number: 9902095030084

Criminal Record: No

Nationality: South African

Driver's License: Yes (Code 8)

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## PERSONAL PROFILE

I am currently a master's Chemical Engineering student at Stellenbosch University. I am hardworking, diligent and a precisionist. I am always seeking opportunities to improve the skills I have gained thus far. I believe in creative engineering solutions. I decided on studying engineering because I want to protect valuable resources for future generations and want to make a difference in the way we as society are operating, so that we can be more efficient and eco-friendlier. I have a great interest in designing new systems and learning how processes work. In the future I want to use my knowledge to help design new ground-breaking systems which can help improve the efficiency and effectiveness of processes in various industries and projects.



## EDUCATION

### **MEng Chemical Engineering | Stellenbosch University**

FEBRUARY 2022 – DECEMBER 2023

Thesis: Utilizing waste cooking oil as potential feedstock for surfactant production.

### **BEng Chemical Engineering (Hons) | Stellenbosch University**

FEBRUARY 2018 – DECEMBER 2021

Thesis: Recovery of bioethanol from spent cheese whey

- Cumlaude for 15 course modules
- Overall course average of 67.8 %
- Stellenbosch University Merit award bursary

### **Undergraduate Program (Short course) | Stellenbosch University**

AUGUST 2021 – FEBRUARY 2022

### **Universal Skills short course | Stellenbosch University**

JULY 2019 – DECEMBER 2019

### **National Senior Certificate | Robertson High School**

JANUARY 2013 – DECEMBER 2017

- Top student in grade from 2015-2017
- Honorary colours for academics (2014-2017)
- Merit award for top student in matric



## EXPERIENCE

### **Student Intern | Water Purification Solutions**

04 JANUARY 2021 – 15 JANUARY 2021

This company is a highly specialized water treatment company which treat all kinds of process water for reuse. I had the following tasks and responsibilities:

- Design of filtration systems
- Analytical lab work, testing water samples
- On-site inspections of water treatment plants.
- Compilation of research documents for portable wastewater treatment units.

## Student Intern | Chimerical Technology

23 NOVEMBER 2020 – 18 DECEMBER 2020

This company specialize in mining systems and designing water treatment systems for the purification of process water to discharge or to reuse the water within processes. I had the following tasks and responsibilities:

- Designing flowsheets for media filtration, nano filtration, ultra-filtration, and precipitation systems.
- CIP Design
- Created PDCs.
- Mass balance calculations
- Pipe and line sizing calculations



### SKILLS

#### Teamwork:

- Ability to work in diverse workplace/teams
- Ability to lead but also to follow requests
- Ability to work hard under pressure and adhering to the expectations of my co-workers

#### Motivated:

Motivated in everything I do and able to cope and prioritize task in challenging environments. Deliver high quality work in short periods of time and manage time in such a way to finish tasks assigned to me well in advance of deadlines, but still delivering my best effort.

#### Program Based skills:

- MATLAB
- Basic machine learning knowledge
- Polymaths
- Microsoft Excel
- Computer-Aided Design (CAD)
- C++ Programming
- HTML
- Microsoft Word, Access, PowerPoint, Projects, Visio

#### Language skills:

- Afrikaans: Home language proficiency
- English: First additional language proficiency

#### Extra skills:

- Good Time management
- Quick learner
- People Working skills
- Leadership
- Good Critical Thinking Skills



### ACTIVITIES

- I enjoy spending my time cycling, fishing, jogging, and reading about scientific events and discoveries.
- Like doing little practical projects with my hands.
- Like to learn new skills by doing online short courses.



### REFERENCES

[Les-Lee Thompson](#): Director of Chimerical Technology (+27 10 500 0380)

Further references can be provided upon request.