



CAIDE SPRIESTERSBACH

ELECTRICAL & COMPUTER ENGINEER

PROFILE

I am a motivated engineering graduate with a strong foundation in problem-solving, collaboration, and technical expertise. My academic journey honed my skills in mathematics and engineering design, while my professional experiences have equipped me to tackle complex challenges with efficiency. Beyond engineering, I am committed to sustainability and environmental conservation, consistently seeking opportunities to make a positive impact.

WORK EXPERIENCE

Engineer in Training

Bushveld Energy

NOVEMBER 2023 -

DECEMBER 2023

- Designed and optimised a 200MW solar PV + Battery Energy Storage System (BESS) for the Vametco Mine, incorporating tracking solar panels for enhanced energy capture.
- Conducted research on Vanadium Redox Flow Batteries (VRFB) and utilised tools like AutoCAD, HOMER, PVSyst, and PVsyst for project mapping, economic analysis, and layout design.
- Integrated BESS for resilient power supply and evaluated financial viability to ensure sustainable energy solutions.

Training Program Participant

Cape Peninsula University of Technology

16 November 2022 -

29 November 2022

- Participated in a comprehensive training program at CPUT.
- Technology exposure included: Welding, Turning, CNC Programming, Metrology, Pneumatics, Basic Hand Skills, and Robotics.
- Received a Testimonial Certificate upon completion.

Apprenticeship

Hot Ink

June 2018 -

December 2018

- Worked under one of the founders of a printing and design company.
- Developed skills in creating invoices, doing stock takes, and working in a team.
- Assisted in production and guided customers through various options.
- Gained insights into project management, communication, and leadership.

REFERENCE

Nic Johnson

Hot Ink / Owner

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Michael Niszl

Bushveld Energy / Manager

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EDUCATION

2015 - 2016

HILTON COLLEGE

- Cultural Colours (Saxophone & Art)

2017-2019

BISHOPS DIOCESAN COLLEGE

- Achieved 5 distinctions
- Final Aggregate: 83.14%
- 1st XV Rugby

2020 - 2024

UNIVERSITY OF CAPE TOWN

- Cumulative GPA: 72.59%

SOFT SKILLS

- Problem Solving
- Attention to detail
- Teamwork
- Adaptability
- Leadership
- Effective Communication
- Critical Thinking
- Confidence

TECHNICAL SKILLS

- AutoCAD, KiCad, JetBrains
- Python, Java, C
- MATLAB, FEKO
- Raspberry Pi, Arduino, STM32 Discovery
- Microsoft Office