RAYNHARDT VAN ZYL

Research Engineer

PROFILE

As a dedicated researcher and innovator, I hold a master's degree in Robotics Engineering and bring a multidisciplinary background spanning Robotics, Neuroscience, Farming, Power, and Finance. I have honed a diverse skill set, including heterogeneous computing, robotic arm design, and algorithmic trading systems. Driven by curiosity and a commitment to excellence, I have a proven track record in delivering innovative solutions and conducting high-quality research. My career goal is to leverage my broad scientific knowledge and unique interdisciplinary perspective to contribute to groundbreaking research and make a significant impact in my chosen field of study.

CONTACT

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HOBBIES

Squash
Cycling
3D printing
Rock climbing

EDUCATION

Stellenbosch University
2017 - 2020
Course: *Bachelor of Science in Electronic Engineering*
E&E top 20: *2017,2018,2019,2020*
Golden key member ID: *16653479*

Stellenbosch University
2021 – 2022
Course: *Master of Science in Electronic Engineering*
Research: *Low-Cost Autonomous Rover with Heterogeneous Compute*
Article: *HETEROGENEOUS COMPUTING FOR LOW-COST ROBOTIC PLATFORM*

WORK EXPERIENCE

PSG Head Consultants - Graduate Engineer
Jan 2023- present
As a Graduate Engineer, I've driven engineering solutions and consultancy services, honing my skills in project planning, design, and data-driven decision-making, crucial for advanced research.

KU Leuven - Researcher
Oct 2022- Dec 2022
As a visiting scholar, I accelerated the CasADi software by developing an FPGA program, enhancing my research, and programming skills, preparing me for rigorous academic research.

Cloud Line - Airship Testing
Jan 2021 - Oct 2022
At Cloud Line, I played a pivotal role in airship testing, mastering data collection, analysis, and troubleshooting, skills vital for a research-intensive environment.

Green Link Solutions - Sensor Designer (PCB / Embedded)
Jun 2021- Dec 2021
As a Sensor Designer, I designed, developed, and tested sensor systems, honing my analytical skills and ability to provide actionable recommendations, key for research and development.

Enerdyne - Product Prototyping and Development (OpenGL / Mainframe Development)
Apr 2021 - Dec 2021
I transformed requirements into functional prototypes using OpenGL and mainframe development, enhancing my product optimization skills, essential for innovative research.

SKILLS