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 ground-breaking research and make a significant impact in my chosen field of study.

CONTACT

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HOBBIES

Squash
CrossFit
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
2021-2023
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

Azoteq Pty (Ltd) – Test Engineer
May 2024 – present (Paarl, South Africa)
Design and execute test plans for semiconductor chips, ensuring product functionality, performance, and reliability through rigorous testing and collaboration with design teams to resolve issues.

R&E Legacy Group – CTO
Aug 2023 – May 2024 (George, South Africa)
As a consultant, I deal with a variety of projects, details can be given upon request.

PSG Head Consultants - Graduate Engineer
Jan 2023- Aug 2023 (Cape Town, South Africa)
As a Graduate Engineer, I have 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 (Leuven, Belgium)
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 (Stellenbosch, South Africa)
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 (Stellenbosch, South Africa)
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.

SKILLS

Skill	Level
Research and Data Analysis	95%
Technical Writing	80%
FPGA Programming	90%
Problem-Solving	90%
Collaboration and Teamwork	90%
Communication	95%