

ARCHIBALD WISHARD ROHDE

Assistant lecturer

@ archibald.rohde@gmail.com in Archibald Rohde LinkedIn Pretoria, South Africa
🔗 https://archibaldrohde.github.io/



WORK EXPERIENCE

Assistant Lecturer

- Employed as an assistant lecturer by the University of Pretoria for the modules ENE310 and ERS220.

Forschungsstudent (Student Researcher)

- Research work in NMR spectroscopy of 3D printed resin structures at the Karlsruhe Institute of Technology (KIT).

Course Developer: Sensor School

- Played a key role in the development of the "University of Pretoria Sensor School" course, a free resource for lesser privileged high school children, as part of a non-profit drive by the Carl and Emily Fuchs Institute for Microelectronics.

Research Intern

- Worked as part of the LCVD group at the Carl and Emily Fuchs Institute for Microelectronics in February 2021.
- Tasked with circuit design.
- Gained skills in group work and research.

Engineering Intern

- I was employed as an engineering intern at RapidM in January 2020 and June 2019.
- Formed part of the tactical division and was tasked with implementation of test procedures on HF radio modems.
- Gained knowledge of production and testing procedures for engineering products.

Stage manager

- I was employed part time as a stage manager for the Choral Celebration Network Foundation in 2019 and 2020.
- Management of backstage activity for choir concerts. This included, but was not limited to: managing choir movement, setting up venues and making sure performances and rehearsals ran according to schedule.
- Gained skills in people management.

University Tutor

- I was employed part time as the ERS220 (Digital Systems) tutor for the ISFAP program at the University of Pretoria in 2019.

ABOUT

I am a microelectronics engineer who specialises in gas sensing, RF and microwave engineering, additive manufacturing and printed electronics. I am employed as an assistant lecturer at the University of Pretoria while completing a PhD in Electronic Engineering. I am a hardworking individual, I work exceptionally well in teams and I love learning.

PUBLICATIONS

Insecticide Monitoring in Cattle Dip with an E-Nose System and Room Temperature Screen-Printed ZnO Gas Sensors

MDPI Agriculture

📅 July 2023

A Portable e-nose for Monitoring Amitraz Insecticide in Cattle Dip

IEEE Africon 2021

📅 September 2021

EDUCATION

MEng Microelectronics *Cum Laude* 77%

University of Pretoria

📅 2022 - 2023

BEng Microelectronics (Hons) 73.75%

University of Pretoria

📅 2021

BEng Electronic

University of Pretoria

📅 2017 - 2020

LANGUAGES

🗣️ English ●●●●●

🗣️ Afrikaans ●●●●●

🗣️ German ●●●●●

ACHIEVEMENTS / INTERESTS

Pan-African Innovation Competition: Low Cost Instruments and Entrepreneurship for Development

Finalist

📅 2021

Finalist in an international innovation competition.

IEEE

Student Member

📅 March 2021 -

Member of technical society.

University of Pretoria TUKS Camerata

SRC member

📅 2018

Communication and Membership portfolio in TUKS Camerata SRC.

University of Pretoria TUKS Camerata

Chorister

📅 October 2016 – current

Participation in an award winning choir. Gold medalists and winners at the world choir games Riga 2017.

TIMELINE

University of Pretoria

Assistant Lecturer

📅 Since February 2021

Karlsruhe Institute of Technology (KIT)

Forschungsstudent Student Researcher)

📅 November 2022 – February 2023

University of Pretoria

Course Developer: Sensor School

📅 Since January 2022

University of Pretoria

Research Assistant

📅 February 2021 – March 2021

RapidM

Engineering Intern

📅 January 2020 & June 2019

CCNF

Stage Manager

📅 February 2019 – February 2020

REFERENCES

Prof. Tinus Stander

@ PhD supervisor

✉ tinus.stander@up.ac.za

Room 2-6, CEFIM Building
1 Lynnwood Road, Pretoria

Prof. T-H Joubert

@ Director of the Carl and Emily Fuchs
Institute for Microelectronics (CEFIM)

✉ trudi.joubert@up.ac.za

Room 2-5, CEFIM Building
1 Lynnwood Road, Pretoria

Dr. Michael Barrett-Berg

@ Director of Choral Activities at the
University of Pretoria

✉ michael.barrett@up.ac.za