

ARCHIBALD WISHARD ROHDE

Assistant lecturer, PhD Candidate

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



WORK EXPERIENCE

Assistant Lecturer (Lecturer of EBN111)

- I am employed as a lecturer by the University of Pretoria for the module EBN111.

Assistant Lecturer (Assistant Lecturer of ERS220 and ENE310)

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

Forschungsstudent (Student Researcher)

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

Course Developer: Sensor School

- I 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

- I worked as part of the LCVD group at the Carl and Emily Fuchs Institute for Microelectronics.

Engineering Intern

- I was employed as an engineering intern at the RapidM tactical division.

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 additive manufacturing of microwave devices and sensor systems. 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 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

Winner

📅 2021

Winner of an international innovation competition.

IEEE AP-MTT-EMC SBC

Chairman

📅 January 2025 -

Chairman of the IEEE AP-MTT-EMC Student Branch Chapter at the University of Pretoria.

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 – 2025

Participation in an award winning choir. Gold medalists and winners at the world choir games Riga 2017, headlining performer at the ACDA National Conference in Dallas Texas 2025.

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

REFERENCES

Prof. Tinus Stander

@ PhD supervisor

✉ tinus.stander@up.ac.za

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

Prof. Daryl Yee

@ Tenure Track Assistant Professor,
Laboratory for the Chemistry of
Materials and Manufacturing

✉ daryl.yee@epfl.ch

Office: MC B3 226
Rue de la Maladière 71b 2000 Neuchâtel

Dr. Michael Barrett-Berg

@ Mentor

✉ michaelconductor@gmail.com