

# ARCHIBALD WISHARD ROHDE

## Assistant lecturer

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🔗 https://archibaldrohde.github.io/



## WORK EXPERIENCE

### Assistant Lecturer

- Employed for three years 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

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

**Finalist**

📅 2021

Finalist in an international innovation competition.

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### IEEE

**Student Member**

📅 March 2021 -

Member of technical society.

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### University of Pretoria TUKS Camerata

**SRC member**

📅 2018

Communication and Membership portfolio in TUKS Camerata SRC.

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### 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.

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## TIMELINE

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### University of Pretoria

**Assistant Lecturer**

📅 Since February 2021

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### Karlsruhe Institute of Technology (KIT)

**Forschungsstudent Student Researcher)**

📅 November 2022 – February 2023

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### University of Pretoria

**Course Developer: Sensor School**

📅 Since January 2022

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### University of Pretoria

**Research Assistant**

📅 February 2021 – March 2021

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### RapidM

**Engineering Intern**

📅 January 2020 & June 2019

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### CCNF

**Stage Manager**

📅 February 2019 – February 2020

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## REFERENCES

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### Prof. Tinus Stander

@ PhD supervisor

✉ tinus.stander@up.ac.za

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

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### Prof. T-H Joubert

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

✉ trudi.joubert@up.ac.za

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1 Lynnwood Road, Pretoria

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### Dr. Michael Barrett-Berg

@ Director of Choral Activities at the  
University of Pretoria

✉ michael.barrett@up.ac.za