

Curriculum Vitae

Friedemann ROHLAND

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Professional Experience

Electronic Design Engineer, Tecan	FT	11/2022 – 8/2024
<ul style="list-style-type: none">• PCB redesign and novel development• EMC compliant electronics design and accredited testing• Life-Cycle management		
Research assistant at SMI Wien	PT	4/2022 – 9/2022
<ul style="list-style-type: none">• Programming using C++ and Python		
Research assistant at JGU Mainz	PT	11/2020 – 3/2022
<ul style="list-style-type: none">• PCB design for anti-matter trap• Design and development of beam monitor		
Student assistant „physikalisches Praktikum“	PT	2/2021 – 4/2021
Internship at Institut für Kernphysik Mainz		23.1 – 3.2.2017

Academic experience

FH Salzburg: MSc Industrial Informatics and Robotics	10/2024 – continued
Smart Green Islands Makeathon	2025/2026
JGU Mainz: BSc Physik	3/2019 – 10/2022
Thesis: “Characterization and optimization of a charge-amplifier based beam monitor for antiprotons.”	
Adviser: Dr. Christian Smorra	
TU Wien: Foreign exchange Semester	3/2022 – 9/2022
Abitur at Gymnasium auf dem Asterstein Koblenz	2019

Other activities:

- **Founder of FPV Drone Club at FH Salzburg** **10/2024**
- **Volunteer at repair-cafe Salzburg** **2023-2026**
- **MAG Schweißen für Anfänger** **12.12.2022**
- **Jugend Forscht participation in 2014, 2015, 2017 and 2018**
- **Participation at Mainzer Teilchenphysik Akademie** **8/2016**

Qualifications:

- German (native)
- English (conversational)
- **Software:** Python, C++, C#, Altium Designer, KiCad, Fusion 360, Matlab
- **Hardware:** Soldering, Welding, STM32 Firmware, basic FPGA
- Drivers License: B