

Lorenz Saalmann

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ABOUT ME

I am a 22-year-old motivated student in **PHYSICS AND TECHNOLOGY FOR SPACE APPLICATION** with a passion for coding and solving problems. I have worked for 4 years as a **VIRTUAL REALITY SOFTWARE DEVELOPER** in a challenging startup environment during my studies. My strengths are in learning and absorbing new things eagerly and quickly.

EDUCATION

Otaki College - Gap year

Project 'SS Otaki Virtual Reality Experience' with Unity as part of the Digital Media Program

Otaki, New Zealand

2017 – 2018

High School - grade 1.0

Honoured for outstanding achievements in physics, finalist in the nationwide Software Challenge

Gesamtschule-Gießen-Ost

2018 – 2021

Justus Liebig University / Technische Hochschule Mittelhessen - B.Sc. grade 1.8

"Physics and technology for space applications"

Gießen, Germany

2021 – Feb. 2025

- Calculus, Linear algebra and Physics (theoretical and applied) related to Space and Aviation
- Electrical and Information Engineering, Computer Science, Robotics
- Bachelor Thesis: "Development and Ion-Optical Simulation of an Electron-Impact Ionization Time-of-Flight Mass Spectrometer" - grade 0.7 [\[PDF\]](#)

Justus Liebig University / Technische Hochschule Mittelhessen - M.Sc.

"Physics and technology for space applications"

Gießen, Germany

2024 – now

EXPERIENCE

Working student as a Unity VR Software Developer

Cognilize GmbH

May 2020 – now

Remote, Germany/U.S.

- Development and Software Architecture in Unity and C#
- Leading role in Networking Architecture using Mirror-Networking and Netcode for GO
- App Development and UI/UX design, worked independently and with close international collaboration
- Creating prototypes and demos with tight deadlines and refactoring growing codebases regularly
- Test driven development for VR applications and reducing dependencies via strict interface abstractions

Academic project in the Ion Thrusters Lab

Justus Liebig Universität

Dec. 2023 – June 2024

Gießen, Germany

- CAD design and construction of a flow board for supplying nitrogen and oxygen to an ion thruster

Internship

Tesat Spacecom

March 2024 – July 2024

Backnang, Germany

- Work in digital circuit design, development of circuit diagrams and layouts for PCBs
- Analytical work in the lab, and development of spacecraft simulation software for communication

Internship

Kyoto Institute of Technology

March 2025 – May 2025

Kyoto, Japan

- Research in the department of Atmospheric Pressure Plasma Physics
- Investigating the Effects of Atmospheric Pressure Plasma Radiation on the Sterilization of Cladosporium sphaerospermum [\[PDF\]](#)

TOOLS & TECHNOLOGIES

