

KONRAD WEHKAMP

CURRICULUM VITAE



PROFILE

Master’s student in Physics and Technology for Space Applications with a strong focus on propulsion testing, experimental research, and hardware-oriented development in laboratory environments.

LANGUAGE SKILLS

German: native speaker **C2**

English: fluent **C1**

French: basic knowledge **B1**

IT SKILLS

Python: advanced
C++: intermediate
LabVIEW: intermediate
CAD (Inventor): intermediate
MS Office / LaTeX / Origin: advanced
GitHub: github.com/konradweh

INTERESTS

Creative projects (electronics, 3D printing, woodworking)
Field hockey and Bouldering

VOLUNTEER EXPERIENCE

Coach and organizer of an inclusive hockey team for athletes with disabilities since 2021.
C-level coaching license, responsibility for training and team development.

EDUCATION

Justus Liebig University Giessen
M.Sc. Physics and Technology for Space Applications 04.2025 – present (parallel enrollment)
Focus on spacecraft propulsion, plasma physics, and space systems engineering

Justus Liebig University Giessen
B.Sc. Physics and Technology for Space Applications
Final grade: 1.9
Bachelor’s thesis: Emittance measurements on reference ion sources for electric propulsion characterization (Ref4EP project) 10.2021 – 04.2026
Hands-on work with ion sources, beam diagnostics, and performance evaluation methods

Karl-Rehbein-Gymnasium Hanau
German university entrance qualification, grade: 1.7 07.2021
Honors for outstanding achievement in Physics

RELEVANT PROJECTS & EXPERIENCE

GSI HELMHOLTZ CENTRE FOR HEAVY ION RESEARCH

Internship
Designed and integrated a cooling solution for analogue electronics used in the SHIPTRAP
Supported the integration and operation of experimental hardware in a high-vacuum and radiation-exposed environment 07.2025 – 10.2025
Performed hands-on assembly, maintenance, and troubleshooting of experimental components, including work on the electron gun at the target area

ION THRUSTER RESEARCH GROUP – JLU GIESSEN

Student Researcher
Conducted plasma measurements and diagnostics in the context of electric propulsion research 04.2023 – 10.2023
Supported experimental investigations using THz time-domain spectroscopy (THz-TDS)

Project Work
Developed a global Python-based model for multi-species plasmas in a small team 10.2024 – 04.2026
Used the model to study plasma behavior relevant to electric propulsion systems

Project Work
Developed a Python-based simulation of atmospheric reentry for different space vehicles 10.2025 – 04.2026
Modeled key physical effects including aerodynamic forces, thermal loads, and flight dynamics