



# DANIEL HACKL

## Physicist & Energy Engineer

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## WORK EXPERIENCE

### Project Engineer

#### JUNO Consulting & Nuclear Engineering GmbH

 March 2025 – Now     Vienna     Part-time

Collaboration and management of engineering projects as well as coordination of international project partners, carrying out calculations, quality control and technical documentation.

### Graduate Researcher

#### Vienna University of Technology

 Sept. 2024 – May 2025     Vienna     Full-time

Conducted research on neutron-irradiated high-temperature superconductors for fusion applications as part of my master's thesis. Designed and manufactured custom sample holders for in-situ resistivity measurements during oxygen annealing. Determined neutron flux in the TRIGA research reactor to accurately assess irradiation conditions.

### Project Engineer (Student Employee)

#### DMT GmbH & Co. KG

 March 2024 – Dec. 2024     Vienna     Part-time

Preparation of technical reports and calculations for engineering projects, development of concepts for energy and waste disposal projects, analysis of market and competition data, support in the coordination of external partners.

### Intern

#### Nuclear Engineering Seibersdorf GmbH

 September 2023     Seibersdorf     Full-time

Participation in the modernization of a conditioning plant: Carrying out an analysis of the current status and comparing defined parameters before and after the conversion using trial operations.

### Physics Teacher

#### Department of Education for Vienna

 Sept. 2022 – Sept. 2023     Vienna     Part-time

Taught physics to multiple upper school classes, delivering engaging lessons. Served as an assessor for oral school-leaving examinations, evaluating student performance.

## MOST PROUD OF



### Merit Scholarship

Awarded for the academic year 2022/23 with a GPA of 1.06

## EDUCATION

### MSc in Physical Energy and Measurement Engineering

#### Vienna University of Technology

 July 2022 – Sept. 2025 (Exp.)     Full-time

### BSc in Technical Physics

#### Vienna University of Technology

 Oct. 2017 – July 2022     Full-time

### Grammar School

#### GRG 21 Ödenburgerstraße

 2009 – 2017     Full-time

Graduated with honors.

## SKILLS

- Analytic Problem Solving
- Team Leadership
- Technical Reporting
- Project Management
- Data Analysis
- Digital Literacy
- Sustainability Awareness
- Adaptability
- Process Optimization
- Quality Assurance
- Stakeholder Management
- Presentation
- Energy Engineering
- Renewable Energy
- Radiation Protection
- Data Modelling
- Thermodynamics
- Instrumentation
- Simulation
- Data Analysis
- Automation
- Materials Science
- Safety Engineering
- C++
- Python
- Autodesk Inventor
- LaTeX
- Microsoft Office
- VS Code

Driving License A2 and B

## UNIVERSITY PROJECTS

In-Situ Measurement of the Resistivity during Annealing of Neutron Irradiated High-Temperature Superconductors (Master Thesis)

Vienna University of Technology

Sept. 2024 – Now   Vienna   Full-time

Radiation Exposure in ISS Columbus Module

Vienna University of Technology

Oct. 2023 – Jan. 2024   Vienna   Full-time

Used thermoluminescence dosimeters to measure and analyze radiation exposure in the ISS Columbus module.

Activity Determination of Radiation Sources

Vienna University of Technology

Feb. 2023 – Aug. 2023   Vienna   Full-time

Analyzed Co-60 and Cs-137 radiation sources using various detection and measurement methods.

Safety Concepts for PWRs (Bachelor Thesis)

Vienna University of Technology

Feb. 2023 – Aug. 2023   Vienna   Full-time

Researched and developed safety concepts for pressurized water reactors from Generation II to Generation III+.

## EXTRACURRICULAR ENGAGEMENT

President - Young Generation

Austrian Nuclear Society

April 2025 – Today

Board Member (Sept. 2023 – March 2025) and previously a member. Participated in international conferences and stakeholder meetings, fostered exchange with young professionals, and contributed to various nuclear sector initiatives.

Member

TU Wien TOP Fellows

Jan. 2024 – Today

Lead Organizer

DACH Young Nuclear Professionals Conference

Oct. 2024   Zwentendorf, AT

Organized the joint conference of the Austrian, German, and Swiss nuclear societies, leading organizational planning and moderation.

Delegate

International Youth Nuclear Congress

Sept. – Oct. 2024   Abu Dhabi, UAE

Represented Austria, presented country report and technical paper on nuclear safety advances.

## LANGUAGES

German   ● ● ● ● ●

English   ● ● ● ● ●

Croatian   ● ● ● ● ●

Russian   ● ● ● ● ●

French   ● ● ● ● ●

## PUBLICATIONS

### Conference Proceedings

- D. Hackl, E. Langegger, and H. Böck, "Evolution of safety concepts in pressurized water reactors," in *Proceedings of the IYNC 2024 Conference*, 2025.

## REFEREES

Senior Scientist Dipl.-Ing. Dr. Mario Villa

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Technische Universität Wien

Head of TRIGA Center, Lecturer for Reaktorphysik

Privatdoz. DI. Dr. Michael Eisterer

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Vienna University of Technology

Professor of Solid State Physics

Univ. Prof. Dr. Helmuth Böck

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Vienna University of Technology

Professor of Nuclear Engineering