Simon Michael Wimmer

Date of birth: 18/04/2006

Place of birth: Austria

Nationality: Austrian

Gender: Male

Contact

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https://simon-wimmer.com/

Simon Michael Wimmer

ABOUT MYSELF

My vocation is to help develop the world of tomorrow through innovative technologies in the fields of electronics and computer science.

EDUCATION & TRAINING

14/09/2020 - 12/09/2024 Ebenau, Austria

Journeyman in Mechatronics (Automation Technology)

Wirtschaftskammer Salzburg (WKS)

Address: Werkschulheimstrasse 115323, Ebenau (Austria) | **Website:** https://www.werkschulheim.at/en/craft/#oberstufe **Field(s) of study:** Electronics and automation | **Final grade:** with Honors | **Level in EQF:** EQF level 4

11/09/2016 - 06/06/2025 Ebenau, Austria

Austrian Baccalaureate (A-Level Equivalent)

Werkschulheim Felbertal (WSH)

Address: Werkschulheimstrasse 115323, Ebenau (Austria) | **Website:** https://www.werkschulheim.at/en/grammar-school/ **Field(s) of study:** Generic programmes and qualifications | **Level in EQF:** EQF level 4

WORK EXPERIENCE

Auroville Institute of Applied Technology - College

Auroville, India

Electronics and Computer Science Instructor

01/09/2025 - 30/06/2026

- Planned, developed, and delivered introductory programming classes for first-year students, supporting the curriculum transition from Scratch to Python and leading web design labs.
- Supported students in hardware troubleshooting and repairs (e.g., mobile robots, 3D printer maintenance, phone repair), promoting problem-solving and sustainability in electronics training.
- Produced marketing content for AIAT's social media platforms to strengthen outreach and visibility.

Fronius International

Thalheim bei Wels, Austria

Intern R&D Mechatronics (HSE PW)

08/07/2024 - 02/08/2024

- Assembled continuous-use test setups for welding machine software validation, exceeding build targets by 30 %.
- Improved and updated technical documentation to streamline future test setup assembly.

KTM AG

Mattighofen, Austria

Intern R&D Electrics

10/07/2023 - 04/08/2023

- Constructed and documented prototypes and sample wiring harnesses for research and development projects.
- Performed electrical troubleshooting and conducted analysis on endurance vehicles.

Paris Lodron University Salzburg

Salzburg, Austria

Website:

https://storymaps.arcgis.com/stories/bd353d8df7f34e96bcd65fcc0b506605

Intern Geoinformatics

03/04/2023 - 06/04/2023

- Processed and visualized survey data using geoinformatics tools such as ArcGIS, gaining hands-on experience in spatial data analysis and scripting with Arcade.
- Contributed to the design of an accessible survey interface, prioritizing user experience and inclusivity for young participants.
- Collaborated closely within an interdisciplinary team, applying modern project management strategies and fostering a positive, productive working environment.

VOLUNTEERING

01/08/2024 - Current Remote

IT Team Leader

Team Management , Google Workspace Administration, Podio Workspace Administration, Ticketsystem Management, WordPress Website Hosting & Development, Cyber Security Advocate

01/09/2024 - 31/08/2025 Linz

State Representative

Organized monthly networking meetings and educational field trips for potential candidates of a gap year program.

HONOURS AND AWARDS

16/09/2025 Paris Lodron University Salzburg, Kaiserschild Foundation

Dr. Hans Riegel Award 2025

Completed a scientific research paper on the contemporary economic topic “Data as an Asset: The Economic Value of Data Collection in the Digital Age,” demonstrating independent research methodology, critical analysis of business and regulatory frameworks (GDPR, CCPA), and synthesis of complex interdisciplinary concepts spanning information technology, economics, and law. The paper was awarded the Dr. Hans Riegel Award by the Paris Lodron University of Salzburg for outstanding student research.

Link https://simon-wimmer.com/files/projects/en/ABA_Wimmer_Simon_EN.pdf

TECHNICAL SKILLS

Programming Languages

- C++
- Python
- R
- IEC 61131 Standardized PLC Programming Languages (LL, ST, FBD, SFC)

Web Development

- HTML
- CSS
- JavaScript
- PHP
- SQL
- REST
- Flask

Link https://kindergarten-burgkirchen.rf.gd/

CAD Software

- MicroStation
- Siemens NX
- SolidWorks

Link

https://sketchfab.com/3d-models/mobile-service-robot-symposion-without-covers-d7dbd0ad18ec4a59a97f119ed9038c74

EDA Software

- Altium Designer
- Autodesk Eagle
- NI Multisim
- sPlan

DIGITAL SKILLS TEST RESULTS

Information and data literacy	**ADVANCED**	Level 6/6
Communication and collaboration	**ADVANCED**	Level 6/6
Digital content creation	**ADVANCED**	Level 6/6
Safety	**ADVANCED**	Level 6/6
Problem solving	**ADVANCED**	Level 6/6

Results from a Self-assessment Based on The Digital Competence Framework 2.1.

LANGUAGE SKILLS

MOTHER TONGUE(S): German
OTHER LANGUAGE(S):

English

Listening B2
Reading B2
Writing B2
Spoken production B2
Spoken interaction B2

Latin

Listening A1
Reading A1
Writing A1
Spoken production A1
Spoken interaction A1

Italian

Listening A1
Reading A1
Writing A1
Spoken production A1
Spoken interaction A1

MANAGEMENT SKILLS

01/05/2024 - 31/03/2025

Prom Comittee

I served as the chairman of the organizing committee for our high school prom and pre-graduation party with around 400 guests each and acted as a moderator as well as evening speaker. I was responsible for the overall concept, evening schedule, and the on-site execution of the event.

Likewise, I managed venue selection and contracting, obtained the official event permit, coordinated security and insurance providers, and oversaw ticketing, budgeting, and payments, including sponsor contributions and cost control. Dedicated subteams handled marketing, bar operations, and logistics, while I coordinated their work and served as the central point for decisions, risk management, and communication with school leadership and local authorities.

01/10/2023 - 30/06/2024

Manager of Student Café

As part of the 11th-grade “Zentrum” project at Werkschulheim Felbertal, I served as managing director of the student café for one school year, leading a team of 14 students and overseeing daily operations. Responsibilities included shift planning, supply management with wholesalers and local suppliers, pricing and budgeting, as well as organizing special events that contributed a significant share of annual revenue.

Together with the finance lead I tracked turnover, costs and profit distribution, while also coordinating small marketing campaigns and promotions to increase attendance. The café generated a five-figure revenue and a solid profit that was distributed transparently based on recorded shifts, turning the project into a practical exercise in small-business operations, leadership and team management.

PROJECTS

01/10/2023 - 30/06/2024

Mobile Service Robot Symposion

Symposion is a mobile service robot built for WIFI Salzburg's Mechatronics, Electronics & Robotics Department as a showpiece for festivals and formal events. Its role is to move autonomously through reception areas with a height-adjustable platform that can present and serve flyers and beverages, demonstrating how mobile robots can support typical Industry 4.0 logistics tasks in a playful way.

Mechanically, Symposion extends a Festo Robotino base with a custom linear axis and platform, designed in CAD and built from milled aluminum parts, plate material, and 3D-printed housings for sensors and lighting. The complete upper structure, including platform, touch display housing, lighting, safety covers and cable routing, was designed, manufactured and assembled by me as part of the project.

On the electronics and software side, the robot combines the Robotino control unit with a self-designed Arduino-based interface board for additional ToF distance sensors, capacitive bottle detectors, and RGB lighting. The autonomy stack, including self-driving logic, route recording and replay, as well as automatic docking to a charging station using distance sensors and a 3D camera, was developed by me. This also includes an additional web GUI built using HTML/CSS and Python (Flask) running directly on the robot. Different modes let Symposion be manually “taught” routes, then drive them autonomously, adjust platform height, react to obstacles, and present information and branding on the integrated touch display.

Link https://simon-wimmer.com/files/projects/en/Symposion_SMW_2023_EN.pdf

01/05/2024 - 16/02/2025

Research Paper: Data as an Asset - The Economic Value of Data Collection in the Digital Age

My final paper written at Werkschulheim Felbertal examines when and how collected data becomes an economic asset in the digital economy. Using examples from large tech platforms and data-driven business models, the work explores how personal and behavioral data is aggregated, monetized and traded, and which economic incentives drive ever-growing data collection.

The paper combines basic microeconomic concepts, business model analysis and an accessible overview of data protection and platform regulation to discuss the tension between commercial data use and individual rights. The work received the Dr. Hans Riegel-Fachpreis (1st prize in Informatics) from the Paris Lodron University of Salzburg, which recognized both its scientific quality and its societal relevance.

Link https://simon-wimmer.com/files/projects/en/ABA_Wimmer_Simon_EN.pdf

01/03/2023 - 30/06/2023

Stewart Platform

A Stewart platform that can move a top plate in all six degrees of freedom using six motorized linear actuators. The goal was to explore hexapod kinematics as a personal learning project and to build a small motion platform that mimics professional positioning systems.

I designed the mechanical structure in CAD, milled the base and housing parts, and 3D-printed custom joints and adapters to connect the actuators to the platform. On the electronics side, the system uses a Raspberry

Pi with a self-designed interface PCB for stepper drivers, power distribution, and sensor connections.

The control software is realized in Python with a simple Flask-based web interface running directly on the Pi, allowing each axis to be moved from a browser and standard positions to be stored and recalled. Over time the project evolved into a documented build, including a detailed project report, a video series, and an Instructables guide that makes it reproducible for other makers.

Link https://www.instructables.com/Stewart-Platform-2/

28/01/2022 - 01/09/2022

Full Stack Web Development for a Kindergarten

In a non-profit collaboration with the local Kindergarten Burgkirchen, I designed and developed a new website to improve the kindergarten's public presence and provide parents with easy access to key information, forms and news. The project covered the full stack from initial information architecture and layout planning to implementation with HTML, CSS/SCSS and JavaScript, plus deployment on a cloud hosting provider.

The project was run like a small client engagement: scope and deliverables were defined in a statement of work and requirements document, tasks were tracked in Asana, and I held regular review meetings with the kindergarten team to iterate on content and design. Beyond strengthening my front-end and basic cloud infrastructure skills, this project also trained stakeholder communication, expectation management and hands-on project management with a real community partner.

Link https://kindergarten-burgkirchen.rf.gd/