

Elias Wachmann

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EDUCATION

GRAZ UNIVERSITY OF TECHNOLOGY

MSc. TECHNICAL PHYSICS

Graz, AT | Oct 2023 - today

KARL-FRANZENS-UNIVERSITY

BSc. PHYSICS

Graz, AT | Oct 2020 - Jul 2023

- GPA: 1.32 (1 best; 5 worst)
- Tutor (Introduction to Programming [summer term 23])

GRAZ UNIVERSITY OF TECHNOLOGY

BSc. SOFTWAREENGINEERING AND MANAGEMENT

Graz, AT | Oct 2020 - today

- GPA: 1.17 (1 best; 5 worst)
- Tutor (Data Structures and Algorithms [winter term 22, winter term 23])

BG/BRG - FÜRSTENFELD

AHS-MATURA (A-LEVELS)

Fürstenfeld, AT | 2011 - 2019

- GPA: 1.0 (1 best; 5 worst)
- Dr.-Hans-Riegel-Award for graduation work: How a Blockchain works with Bitcoin as an application example
- Lead organization and finances for school prom (profit > 60 000 €)

WORK EXPERIENCE

ERNST & YOUNG WBG MBH | INTERN | FINANCIAL RISK CONSULTING

Frankfurt, DE | Jul 2023 – Oct 2023

- Credit risk scorecard development (PD) for 7 country subsidiaries of large German bank (corporate portfolio)
- Semi-automated development and reporting process (IRB-approach) using R-shiny and SQL-databases

AVL LIST GMBH | INTERN | ADVANCED SIMULATION TECHNOLOGIES

Graz, AT | Jul 2022 – Aug 2022

- Validated FE-simulations with reduced sampling for synchronous permanent magnet- & induction machines
- Streamlined and automated the validation process with python scripts

NIDEC CORPORATION | INTERN | R&D - GLOBAL APPLIANCE

Fürstenfeld, AT | Aug 2021 - Sept 2021

- Data analysis and cost optimization with international team for a new fridge compressor platform.
- Implemented a web scraper for market analysis of refrigeration equipment (> 3 500 products)

EXTRA-CURRICULAR ACTIVITIES

CIRCLE OF EXCELLENCE | YEAR 2022 & EXECUTIVE BOARD MEMBER | MARKETING

Graz, AT | 2022 - today

- High potential program with 20 students each year selected from (\approx 60 000) university students
- Charity project: self-made kitchen calendar with net profit (> 10 000 €) donated to orphans from Ukraine

AUSTRIAN RED CROSS | VOL. PARAMEDIC

Fürstenfeld, AT | 2019 - 2022

FIRE DEPARTMENT | VOL. FIREFIGHTER & BOARD MEMBER | IT

Großartmannsdorf, AT | 2011 - today

AWARDS

Merit-Based Scholarship in Physics 2020/21 & 2021/22 & 2022/23

Top 10 % of students in Softwareengineering 2020/21 & 2021/22

Chemistry Olympiad silver medal 2018 & 2019

Goju-Ryu Karate National junior champion Kumite < 68 kg

Dr.-Hans-Riegel-Fachpreis for graduation work

Member of MINTTANK Graz - Kaiserschil-Stiftung

ISF - Orienteering School WC Italy 2017 Top 35

ISF - Orienteering School WC Turkey 2015 Top 25

SKILLS & INTERESTS

Languages: **German** (native) | **English** - EF SET English Certificate 88/100 (C2 Proficient)

Software: Python | C | C++ | R | VBA | (Postgre)SQL | Git | \LaTeX | MS Excel | MS PowerPoint | MS Word | Linux

Certifications: **MIT** Introduction to Computational Thinking and Data Science | **VISA** Token Service Technology Program
McKinsey Firsthand | **Boston Consulting Group** EMERALDS Program | **E-fellows.net** Scholarship

Interests: Orienteering / Running | Drumming (17 years) | Skiing | Speedcubing (PB < 20 sec)