

Elias Wachmann

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EDUCATION

KARL-FRANZENS-UNIVERSITY

BSc. PHYSICS

Graz, AT | Oct 2020 - today

- GPA: 1.30 (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: 1.18 (1 best; 5 worst)
- Tutor (Data Structures and Algorithms [winter term 22])

BG/BRG - FÜRSTENFELD

AHS-MATURA (A-LEVELS)

Fürstenfeld, AT | 2011 - 2019

- GPA: 1.0 (1 best; 5 worst)
- Won 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

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

- Collaborated with international team on a preliminary study for the introduction of a new household compressor platform. Data analysis, evaluation of different market scenarios & compressor cost optimization
- Implemented a web scraper for market analysis of refrigeration equipment (> 3 500 products)
- Modeled hysteresis curves of permanent magnets in VBA

AUSTRIAN RED CROSS | PARAMEDIC

Fürstenfeld, AT | Aug 2019 – Jul 2020

- Certified Austrian paramedic and trained emergency driver responsible for a crew of two and the patient

EXTRA-CURRICULAR ACTIVITIES

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

Graz, AT | Jan 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 | May 2019 - today

FIRE DEPARTMENT | VOL. FIREFIGHTER & BOARD MEMBER | IT

Großartmannsdorf, AT | Jan 2011 - today

AWARDS

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

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 - Kaiserschild-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++ | 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 (16 years) | Skiing | Speedcubing (PB < 20 sec)