

# Elias Wachmann

Schörgelgasse 68d/5, 8010 Graz, Austria | +43 664 8872 9181 | [elias.wachmann@gmail.com](mailto:elias.wachmann@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Web](#)

## EDUCATION

### KARL-FRANZENS-UNIVERSITY

BSc. PHYSICS

Graz, AT | Oct 2020 - today

- GPA: currently 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: currently 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 - DEPARTMENT

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 Turkey 2015 Top 25

ISF - Orienteering School WC Italy 2017 Top 35

## 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)