

# Elias Wachmann

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## EDUCATION

### KARL-FRANZENS-UNIVERSITY

Graz, AT | Oct 2020 - today

#### BSc. PHYSICS

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

### GRAZ UNIVERSITY OF TECHNOLOGY

Graz, AT | Oct 2020 - today

#### BSc. SOFTWAREENGINEERING AND MANAGEMENT

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

### BG/BRG - FÜRSTENFELD

Fürstenfeld, AT | 2011 - 2019

#### AHS-MATURA (A-LEVELS)

- GPA: 1.0 (1 best; 5 worst)
- Award-winning graduation work: How a Blockchain works with Bitcoin as an application example

## WORK EXPERIENCE

### AVL LIST GMBH | INTERN - ADVANCED SIMULATION TECHNOLOGIES

Graz, AT | Jul 2022 – Aug 2022

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

### NIDEC CORPORATION | INTERN R&D - DEPARTMENT

Fürstenfeld, AT | Aug 2021 - Sept 2021

- Collaborating 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
- Implementation of a web scraper for market analysis of refrigeration equipment
- Modelling 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: selfmade 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

Dr.-Hans-Riegel-Fachpreis for graduation work

Chemistry Olympiad silver medal (2019) & qualification nationals

ISF - Orienteering School WC Italy 2017 qualification & Top 25

Goju-Ryu Karate Austrian junior champion Kumite  $< 68$  kg

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

Member of MINTTANK Graz - Kaiserschild-Stiftung

Chemistry Olympiad silver medal (2018) & participation nationals

ISF - Orienteering School WC Turkey 2015 qualification & Top 30

## SKILLS & INTERESTS

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

Software: python | C | C++ | VBA | (Postgre)SQL | Git |  $\LaTeX$  | MS Office | CAD | Linux | MS-Windows

Certifications: MIT Introduction to Computational Thinking and Data Science | VISA Token Service Technology Program

Interests: Orienteering / Running | Music & Drumming | Skiing | Speedcubing