

# Elias Wachmann

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## EDUCATION

### DELFT UNIVERSITY OF TECHNOLOGY

MSC. APPLIED PHYSICS (ERASMUS+ EXCHANGE)

Delft, NL | Aug 2024 - Jan 2025

### 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)
- Teaching (Introduction to Programming [summer term 23, summer term 24])

### 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)
- 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 OF 2022 & BOARD MEMBER | PARTNER RELATIONS

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 | Jul 2019 - Apr 2022

### FIRE DEPARTMENT | VOL. FIREFIGHTER & BOARD MEMBER | IT

Großartmannsdorf, AT | Jan 2011 - today

## AWARDS

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

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

**Chemistry Olympiad (state)** 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++ | R | SCRUM | 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)