Elias Wachmann

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EDUCATION

GRAZ UNIVERSITY OF TECHNOLOGY

Graz, AT | 2020-today

DIPL. ING. TECHNICAL PHYSICS | GPA (CURRENT): 1.18 (1 BEST; 5 WORST)

Oct 2023 - today

MSc. Applied Physics (Erasmus-Exchange at TU Delft)

Delft, NL | Sept 2024 - Jan 2025

BSc. Softwareengineering and Management | GPA: 1.0 (1 Best; 5 Worst)

Oct 2020 - Jun 2024

- Focus: Computational Physics, Monte-Carlo Simulations, Statistical/Machine Learning
- Tutor: Data Structures and Algorithms (winter terms 22 and 23)

KARL-FRANZENS-UNIVERSITY

Graz, AT | Oct 2020 - Jul 2023

BSc. Physics | GPA: 1.32 (1 BEST; 5 WORST)

- Thesis: Investigating Cellular Automata in Physics: A Case Study of Diffusion and Close-Packing of Equal Spheres
- Teaching: Introduction to Programming (summer terms 23, 24 and 25)

BG/BRG - FÜRSTENFELD

Fürstenfeld, AT | Sep 2011 - Jun 2019

AHS-MATURA (A-LEVELS) | GPA: 1.0 (1 BEST; 5 WORST)

- Thesis: How a Blockchain Works Using Bitcoin as an Example [DE]
- Lead organization and finances for school prom (profit > 60 000 €)

WORK EXPERIENCE

ANTON PAAR GMBH | INTERN | RD DIVISION MANAGEMENT

Graz, AT | Jul 2024 - Aug 2024

- Co-developed strategy for responsible Al implementation & compliance at Anton Paar, aligning with the Al Act
- Spearheaded AI compliance framework development for products & business processes

ERNST & YOUNG WBG MBH | INTERN | FINANCIAL RISK CONSULTING Frankfurt, DE | Jul 2023 – Oct 2023

- Co-developed a credit risk scorecard (PD) for 7 country subsidiaries of large German bank (corporate portfolio)
- Implemented semi-automated 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 - Sep 2021

- Analyzed data and optimized cost with international team for a new fridge compressor platform.
- Development and implementation of a web scraper for market analysis of refrigeration equipment

EXTRA-CURRICULAR ACTIVITIES

FIRE DEPARTMENT | Vol. FIREFIGHTER & BOARD MEMBER IT

Großartmannsdorf, AT | Jan 2011 - today

CIRCLE OF EXCELLENCE | YEAR OF 2022 & BOARD MEMBER (2023 & 2024)

Graz, AT | Jan 2022 - Oct 2024

- High potential program for 20 students across 4 unicersities
- Charity project: self-made recipe calender with net profit (> 10 000 €) donated to orphans from Ukraine

AWARDS

Merit-Based Scholarship in Physics (4x) 2020-24

Merit-Based Scholarship in SEM (3x) 2020-23

Chemistry Olympiad (state) silver medal 2018 & 2019

Goju-Ryu Karate National junior champion Kumite < 68 kg

Dr.-Hans-Riegel-Fachpreis for graduation paper **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++ | MPI | R | Git | LaTeX | MS Office | Linux Interests: Orienteering | Running | Karate | Drumming | Skiing