



# Elias Wachmann

## Curriculum Vitae

### Education

- 2011–2019 **AHS-Matura (Austrian High School Diploma)**, BG/BRG - Fürstenfeld, Fürstenfeld, Grade: *1,0*.  
Main Subjects: Maths, Chemistry, Physics, Geometry and CAD, Computer Science  
Graduation Work: Funktionsweise einer Blockchain am Anwendungsbeispiel von Bitcoin (How a Blockchain works with Bitcoin as an application example); Won the Dr.-Hans-Riegel-Fachpreis for Graduation Work.
- 2020– **Bachelor of Science**, Technische Universität, Graz.  
NAWI-Graz Physics BA& Softwareengineering and Management BA
- 2020– **Bachelor of Science**, Karl-Franzens-Universität, Graz.  
NAWI-Graz Physics BA

### Projects

- 2016–2017 Erasmus+ - project: Freiheit und Grenzen - with partner school FOSBOS Friedberg student-exchange and production of educational videos

### Work Experience

- Aug. 2018 **Intern**, Estyria Naturprodukte GmbH, Wollsdorf.  
Collecting knowledge and facts about raw materials in a knowledge database to support salespeople and key account managers.
- 2019–2020 **Paramedic**, Österreichisches Rotes Kreuz, Fürstenfeld.  
Civilian service as a paramedic with the Austrian Red Cross.  
As a paramedic, I was able to gain a wide range of experience in medical assistance, in emergencies and non-emergencies, but also in interpersonal dealings. As a trained emergency driver with responsibility over patients and my accompanying paramedic, I learned to make the right decisions for patients in stressful situations calmly and quickly. Even after the end of my civilian service, it is still important to me to help people in acute need, which is why I continue to volunteer.

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[LinkedIn](#) ◇ [GitHub](#)

Aug. 2021– **Intern R&D - Department,** *Nidec Global Appliance Austria GmbH,*  
Sep. 2021 Fürstenfeld.

Involved significantly in the research and development department in the preliminary study for the introduction of a new compressor platform. Main tasks: data analysis and data preparation, as well as finding the optimal platform for the predicted market. Here I was also able to gain experience in international cooperation with participating colleagues from Brazil and Slovakia.

Further projects and areas of work:

- Implementation of a web scraper for market analysis of refrigeration equipment
- Modeling of hysteresis curves for calculations of an engine simulation program
- Excel - Simcenter SPEED interface

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## Awards

### Academic

- 2018 Chemistry Olympiad state-wide silver medal and qualification and participation at the national finals
- 2019 Chemistry Olympiad state-wide silver medal and qualification for the national finals
- 2019 Dr.-Hans-Riegel-Fachpreis for my graduation work: Funktionsweise einer Blockchain am Beispiel von Bitcoin (How a Blockchain works with Bitcoin as an application example)
- 2019- Member of MINTTANK Graz (Dr. Hans Riegel-Stiftung - Kaiserschild-Stiftung)
- 2020- Scholarship holder of the Fürst Dietrichstein'schen Stiftung 20/21 & 21/22
- 2021 Merit-Based Scholarship  
Faculty of Mathematics, Physics and Geodesy, TU Graz
- 2021 Merit-Based Scholarship & Top 10% of first-year Software Engineering and Management students  
Faculty of Computer Science and Biomedical Engineering TU Graz
- 2022 Member of Circle of Excellence Graz (Year 2022)

### Sports

- 2015 Goju-Ryu karate - Austrian junior Champion Kumite < 68 kg
- 2015 Qualification & participation ISF - World Schools Championships Orienteering Turkey
- 2017 Qualification & participation ISF - World Schools Championships Orienteering Italy

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## Knowledge and Certifications

Hardware Arduino, Raspberry Pi

Software MS Office, CAD, Vegas Pro, Reaper, Linux, MS-Windows

PYTHON, C, C++, VBA, (POSTGRE)SQL, GIT, L<sup>A</sup>T<sub>E</sub>X

6.00.2x: Introduction to Computational Thinking and Data Science

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