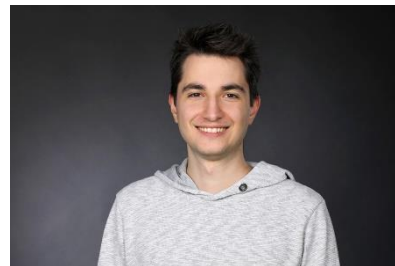


Konstantin Preußner

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EDUCATION

- 10/2023 – present **Technical University Darmstadt & GU Frankfurt** MSc Biomedical Engineering
- Expected graduation in September 2025
 - Current GPA (1.8)
- 09/2024 – 02/2025 **Universitat Politècnica de València** MSc Telecommunication Engineering
- Semester abroad with Erasmus-Scholarship
- 10/2019 - 09/2023 **Technical University Darmstadt & GU Frankfurt** BSc Biomedical Engineering
- GPA 2.33 (Germany)
- 10/2019 - 03/2023 **Technical University Darmstadt** BSc Electrical Engineering (Computer Engineering)
- GPA 2.29 (Germany)
 - Dissertation on “Robust Placement and Control of Phase-Shifting Transformers considering N-1 Contingencies” (Grade 1.0), (algorithms implemented in Python and Julia)
- 08/2017 - 05/2019 **Pestalozzi Schule Idstein** A levels (Abitur)
- GPA 1.8 (Germany)
 - Award for special achievements in Physics

WORK EXPERIENCE

- 10/2023 – 08/2024 **Research Assistant, EINS Institute, Technical University Darmstadt**
- Build a database (mySQL and Postgres) and algorithms (Python) to create and visualize graphs based on real world french medium voltage networks.
- 02/2022 - 08/2023 **Research Assistant, EINS Institute, Technical University Darmstadt**
- Development of algorithm demonstrator App, a tool for visualizing the resilience of low voltage electric networks (ElectronJS, ReactJS, Python, MATLAB)
 - Presented the project to industrial partners and academic researchers in the field.
- 04/2021 – 03/2022 **Assistant Teacher, Technical University Darmstadt, Computer Science and Electrical Engineering Departments**
- Supervised example classes (~ 20 participants) and gave tutorial lectures (~ 100 participants) for practical courses

PROGRAMMING EXPERTISE

- 09/2023 - present **Developing a Travel Website (self-organized)**
- Building a website that will allow the user to share his adventures with much detail to others enabling them to plan their own trips in the same area with more knowledge and data.
- 09/2024 – 10/2024 **WoLiegtSchnee.de (side project)**
- Proud owner of a website that allows user to find the nearest snow in Germany.
 - The snow data is manually queried from the german weather forecast.
- 08/2014 - 07/2018 **Arduino Projects, Class at Pestalozzi Schule Idstein and School Internship at VITRONIC**
- Traffic Light System, Small Arduino controlled Vehicle, Alarm station for Speed Cameras.

SKILLS & INTERESTS

Languages	German (native), English (fluent), Spanish (B1), French (basic)
Technology	Python, Java, Postgres, MySQL, ROS, Arduino, MATLAB, Assembly, JavaScript
Interests	Robotics, Machine Learning, Swimming, Guitar, Piano, Ultimate Frisbee, Reading