

Konstantin Preußner

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Education

10/2023 – 09/2025 *M.Sc. Biomedical Engineering*, TU Darmstadt & Goethe University Frankfurt.
Focus: Robotics, Medical Data Science, Signal Processing, NLP.

GPA: 1.45.

Master's Thesis: “*What Can EEG Really Tell Us About Language? A Deep Learning Study*”, CCPS Group, Prof. Dr. Rolf Findeisen. Grade: 1.0.

09/2024 – 02/2025 *M.Sc. Telecommunications Engineering*, Universitat Politècnica de València (Erasmus Scholarship).

10/2019 – 09/2023 *Double Bachelor's Degree: B.Sc. Biomedical Engineering & B.Sc. Electrical Engineering*, TU Darmstadt & Goethe University Frankfurt.

Biomedical Engineering GPA: 2.33, Electrical Engineering GPA: 2.29.

Bachelor's Thesis: “*Robust Placement and Control of Phase-Shifting Transformers*”, EINS Group, Prof. Dr. Florian Steinke. Grade: 1.0.

08/2017 – 05/2019 *High School Diploma (Abitur)*, Pestalozzi School Idstein.

Final Grade: 1.8. Advanced Courses: Mathematics, Physics.

Award for Outstanding Achievement in Physics (DPG).

Work Experience

Since 09/2024 *Self-employed: Web Development*.

Development of a bonus system platform for SMEs and a travel platform.

10/2023 – 08/2024 *Student Research Assistant*, EINS Institute, TU Darmstadt.

Reconstruction and analysis of medium-voltage grid data.

Developed algorithms and databases (Python, SQL).

Improved data quality and overall usability.

02/2022 – 08/2023 *Student Research Assistant*, EINS Institute, TU Darmstadt.

Developed a visualization app for grid resilience (Python, MATLAB, ElectronJS, ReactJS).

Reduced algorithm runtime by over 90%.

Migrated MATLAB tools to Python/JS, improving user experience.

Presented results to industry partners.

04/2021 – 03/2022 *Teaching Assistant*, TU Darmstadt.

Conducted exercise classes (20 students) and lecture tutorials (100 students) in Java.

Skills

Programming: Python, MATLAB, JavaScript, Java.

ML Tools: PyTorch, Keras, Transformers, SLURM, HPC, PEFT, Gurobi.

Databases: PostgreSQL, MySQL.

Languages: German (native), English (fluent), Spanish (B1), French (basics).

Interests

Swimming Team, Ultimate Frisbee Club, Guitar, Piano, Chess, Books.