



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Technische Universität Darmstadt | Karolinenplatz 5 | 64289 Darmstadt | GERMANY

Konstantin Preusser
65510 Idstein

Letter of recommendation

To Whom It May Concern,

I am pleased to write this letter of recommendation for Mr. Preusser, who was employed in my lab from October 2023 to August 2024 as a student employee.

Mr. Preusser was tasked with retrieving open, real-world power grid data from a distribution grid operator (ENEDIS) and transferring it into a PostgreSQL / PostGIS database. He also developed a Python-based post-processing module to clean and enhance the data. The module allowed to derive a computable distribution grid model from the data, with consistent structural, geographic, and technical details.

In addition to his electrotechnical technical expertise, Mr. Preusser utilized state-of-the-art coding techniques, including large language models (LLMs) for code optimization, debugging, and documentation purposes. His ability to effectively integrate these advanced tools significantly streamlined the development process, leading to efficient, high-quality code that contributed to the success of the project. Furthermore, Mr. Preusser implemented functions to visualize the processed data, either in 2D via Matplotlib or on an interactive Leaflet map using Folium. These visualizations were crucial in validating the data models and added a valuable dimension to the project.

Throughout the project, Mr. Preusser worked independently and efficiently, delivering results with minimal oversight. He exhibited a keen understanding of software engineering principles and the ability to translate complex data into usable formats. His very good programming skills in Python significantly contributed to the success of this project.

In summary, I highly recommend Mr. Preusser. He is driven, reliable, and possesses a solid foundation in software engineering.

Sincerely,

Florian Steinke

FB 18 Electrical Engineering
and Information Technology
FG Energy Information
Networks & Systems

EINS

Energy Information Networks and Systems

Prof. Dr. Florian Steinke

Landgraf-Georg-Str. 4
64283 Darmstadt
GERMANY

Tel. +49 6151 16 – 21710
Fax +49 6151 16 – 21712
office@eins.tu-darmstadt.de

Date
24.10.2024