



To whom it may concern

Department of Informatics

Energy Informatics

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Our Reference

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Letter of reference for Mr. Soheil Nezakat

Clausthal University of Technology is a research-focused university with large national and international visibility. Approximately 80 professors, more than 1,000 employees, and around 3,000 students enjoy short distances, a personal atmosphere, and the fascinating landscape in the middle of the UNESCO World Heritage Site of the Harz Mountains. As the largest employer in the region, Clausthal University of Technology is the most important economic factor and offers cultural diversity and internationality. Clausthal University of Technology has committed itself to the guiding principle of the "Circular Economy" and pursues the goal of contributing to the development of a sustainable society in the digital age through research, teaching, and administration.

Research activities of the Energy Informatics group at the Department of Informatics focus on the collection, transmission, and analysis of information from a wide range of heterogeneous sources. Areas of application include status surveys in energy systems, early warning systems for extreme weather conditions, and the recording of biodiversity using wireless sensor technology.

Mr. Soheil Nezakat, born on 22 February 1990, was employed in my group as a student assistant ("wissenschaftliche Hilfskraft") in the periods from

- 1 March to 31 March 2025, at 80 hours per month, and
- 1 May to 30 September 2025, at 40 hours per month

Mr. Nezakat was responsible for developing and testing methods for predicting cloud movements in the sky for photovoltaic energy production. His responsibilities included:

- Organizing a code repository
- Finding optimal configuration parameters for a sky-facing camera
- Developing a deep learning model for cloud identification and movement prediction
- Designing and implementing experiments to evaluate the developed methods

During his time in our group, Mr. Nezakat demonstrated in-depth technical knowledge in the areas of image processing and deep learning model development. He was able to quickly familiarize himself with new topics, identify relevant research questions, and implement solutions independently and reliably. He showed great diligence in carrying out work and followed a well-structured methodology. He was friendly and cooperative, and his behavior towards his colleagues was exemplary.



TU Clausthal

The certificate is being issued at the request of Mr. Nezakat, who left the working group after successfully completing his duties. We would like to thank Mr. Soheil Nezakat for his work and wish him continued success and all the best.

Yours sincerely,

Prof. Dr.-Ing. Andreas Reinhardt

Head of Energy Informatics, Department of Informatics, TU Clausthal, Germany