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Fraunhofer Institute for Energy Economics
and Energy System Technology IEE

Institute Director (comm.)
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Interim report

Mr. Amit Kumar has joined the Fraunhofer Institute for Energy Economics and Energy System Technology IEE in Kassel, Germany, as a research assistant in the field of Energy Economics Process Integration on 01.09.2020.

The Fraunhofer-Gesellschaft is the world's leading organization for application-oriented research. With its focus on key technologies of future relevance and on the exploitation of the results in business and industry, it plays a central role in the innovation process. Around 30,000 employees work under its umbrella in 76 institutes and research facilities. Fraunhofer IEE in Kassel conducts research in the fields of energy economics and energy systems engineering with a focus on energy informatics, energy meteorology and geoinformation systems, energy economics and systems design, energy process engineering and storage, grid planning and operation, grid stability and power converter technology, and thermal energy engineering. Around 450 scientists, employees and students develop solutions for the energy transition and generate around 38 million euros in revenue per year.

Within the scope of his work, Mr. Kumar assumes the following tasks in particular:

- Implementation of semi-automated processes for the migration from SVN to Git reposi- tories.
- Building pipelines for automated code testing as well as static code analysis (SonarQube) with Jenkins and GitLab CI/CD
- Support in building deployment processes of software in cloud infrastructure (Ran- cher).
- Setup and administration of various services in a cloud infrastructure (Rancher)
- Implementation of a Java client for the model management system
- Setup and administration of a GitLab for code management
- Support in the administration of a build server (Jenkins)

Mr. Kumar uses his excellent and well-founded expertise with great success in his field of work. He has the ability to quickly grasp and analyze complex issues and to develop precise solutions.

Testimony

Particularly noteworthy are his independent familiarization with new technologies and his goal-oriented way of working. He deals with challenges in a very motivated manner at all times.

Mr. Kumar worked his way into his field of activity with the greatest commitment and success in a very short time. He is characterized by an exceptionally high and very good willingness to learn. His way of working is characterized by a high degree of determination, systematic approach and sense of responsibility. He always convinces with excellent ideas and gives valuable suggestions at any time. The quality of his work results always meets the highest standards.

A particular success of Mr. Kumar's work is the evaluation and development of a secure model management system (MLFLow, Keycloak, MinIO) in a cloud infrastructure (Rancher) for various projects.

In summary, we can state that Mr. Kumar always performs the tasks assigned to him to our complete satisfaction.

His behavior towards superiors and colleagues is always exemplary in every respect.

This interim report is issued at the request of Mr. Kumar. We are happy to comply with this request. We would like to thank him for his consistently excellent performance in the past and look forward to a continuation of the positive working relationship.

Kassel, 20.07.2023

Fraunhofer Institute for Energy Economics and Energy System Technology IEE

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