

HAFSA GULZAR

Electrical Engineer

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Kathidarwaza, Srinagar, J&K

ABOUT ME

Electrical Engineer with an M.Tech in Power Systems and Control and a strong background in core power engineering. Currently working as a Research Assistant at the Institute of Technology, University of Kashmir, focusing on control and equivalencing of low-inertia power systems. Interested in power system stability, renewable integration, and advanced control techniques.

EDUCATION

UNIVERSITY OF KASHMIR (IOT), ZAKURA CAMPUS M.Tech in Power System and Control - 95.9% (GOLD MEDALIST)	2022-2025
ISLAMIC UNIVERSITY OF SCIENCE AND TECHNOLOGY, AWANTIPORA B.Tech in Electrical Engineering - 88%	2019-2022
KASHMIR GOVERNMENT POLYTECHNIC COLLEGE, GOGJI BAGH, SRINAGAR Three year diploma in Electrical Engineering - 81.04% (HON)	2016-2019
SULTAN -UL-ARIFEEN WAKF PUBLIC HIGHER SECONDARY SCHOOL 10 TH - 88.8%	2015

WORK EXPERIENCE

INSTITUTE OF TECHNOLOGY , UOK **October 2025 - Present**

- Working on research related to control and equivalencing of low-inertia power systems.
- Conducting data analysis and simulations in MATLAB/Simulink to support research on low inertia power systems.
- Modeling and simulation of power system dynamics using MATLAB/Simulink.
- Developing and analyzing control strategies to improve system stability and performance.
- Preparing technical presentations and reports using LaTeX (Beamer).
- Assisting in teaching various subjects and supporting academic activities.
- Collaborating with faculty on ongoing research projects and documentation.

PROJECTS

- Designed a Simulation model for stability enhancement of multi-machine power system using energy storage system.
- Designed a Simulation model of practical transmission line in Matlab/Simulink for the identification and location of short circuits.
- Worked on Three Phase Resistive Load Bank
- Worked on Fabrication of CMOS Logic gates.

TECHNICAL SKILLS

- MATLAB/Simulink.
- Python.
- Latex/Overleaf.
- MS Office.

SOFT SKILLS

- Time Management.
- Quick Learner.
- Good Leading abilities.
- Adaptability.
- Team work and Collaboration.

TRAININGS AND CERTIFICATIONS

- Participated and completed AICTE training and learning (ATAL) academy faculty development Program on Grid Decarbonisation and Distributed Energy Resources to mitigate climate change held at IUST, Awantipora Pulwama.
 - Training regarding Manufacturing processes and Testing of Distribution Transformers at Northsun Enterprises, Sanatnagar.
 - Training regarding Operation and Maintenance of 132/33 KV Grid power System Network of Kashmir Valley and Transmission System of Srinagar area at Bemina grid station.
 - Completed and Successfully Certified a four week training program for the Operation and Maintenance of 132/33 KV level Grid Station at Wanganpora grid.
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LANGUAGE

- English
 - Urdu
 - Kashmiri
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INTERESTS

- Power Systems
- Renewable Energy Systems
- Electrical Machines