

AABID HUSSAIN SHEIKH

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Senior Research Fellow, National Institute of Technology (NIT) Srinagar, India

Power and Energy Systems Laboratory, Department of Electrical Engineering, NIT Srinagar J&K

OBJECTIVE

I am an Electrical Engineer with a post graduation in Power systems and have a strong academic background in power flow controllers, Variable Frequency Transformer, Renewables energy sources, Energy Conservation, optimization techniques.

I am a dedicated person with a rapid rate of learning who is highly competent to operate in complicated contexts and manage several responsibilities. Continuous learning and professional development are my main priorities. I wish to pursue a prosperous profession in electrical engineering by virtue of my perseverance and diligence.

CURRENT POSITION

Presently Senior Research Fellow (SRF) at Electrical Engineering Department, National Institute of Technology Srinagar, India *April-2021 - Present*

EDUCATION

Ph.D in Electrical Engineering **April 2019 - Present**
National Institute of Technology, Srinagar
J&K, India, 190006.

Thesis: Applications of Variable Frequency Transformer in Wind Energy Conversion systems

Master of Technology in Electrical Engineering **June 2015 - July 2017**
Al-Falah university, Dhouj, Haryana 121004.

Thesis: Maximum Power Extraction from Wind Power Generation System using Intelligent Controllers

Bachelors of Technology in Electrical Engineering **June 2009 - July 2013**
University of Jammu, Jammu, J&K, India, 180006.

Thesis: Solar Bicycle.

TECHNOLOGY SKILLS

Programming Languages MATLAB, Python, PLC, SCADA, C, C++, LaTeX.

Design Software PCB design, PSCAD, AutoCAD.

Accessories MS Word, MS Power-point, MS Excel, Overleaf etc.

WORK EXPERIENCE/INDUSTRIAL TRAINING'S/INTERNSHIPS

Senior Research Fellow **April-2021 - Present**
National Institute of Technology, Srinagar
J&K, India, 193101.

Junior Research Fellow **April-2019 - March-2021**
National Institute of Technology, Srinagar
J&K, India, 193101.

Assistant professor
(On Contract)
National Institute of Technology, Srinagar
J&K, India, 190006.

March 2018 - December 2018

- **Basic Electrical Engineering theory**
Taught three different batches of engineering, each with a strength of 90 students.
- **Power Station Practice**
Students of 7th semester of electrical engineering were taught various generating power stations, Economics of generation, Tariff and power factor improvement.
- **Basic Electrical Engineering Laboratory**
Students were shown project-based practical applications of network theory in order to establish their high level of professional growth.
- **Electrical Measurement Laboratory**
Students were shown project-based practical applications of various electrical equipments in order to establish their high level of professional growth.

Works Manager
Tata Motors Limited,

May 2014 - October 2014

- The main work was to co-ordinate to carry out all the maintenance activities of various equipment like pump, motor, valves, Battery Charger, Transformer, etc..
- Also, a successful completion of three months management training from Amity business school noida was achieved towards the partial fulfillment of certified works manager program.

Industrial Training
(50 Mva, 400kv/220kv Wanpoh Sub-station , Anantnag, J&K)

June 2 - Aug 2, 2012

- Operation & maintenance of power project

WORKSHOPS/SHORT-TERM COURSES

- **Renewable Energy in Science, Engineering and Technology-2019**, Organized by Department Of Electrical Engineering, National Institute of Engineering and Technology, Srinagar. A one week Short term course on Renewable Energy in Science, Engineering and Technology. Experts gave insights about the recent developments in Renewable Energy Sector.
- **Introduction to MATLAB, PSCAD & LateX for Researchers-2019**, Organized by Department Of Electrical Engineering, National Institute of Engineering and Technology, Srinagar. One week short term course on Introduction to MATLAB, PSCAD & LateX for Researchers-2019. Experts gave introduction about the various software with examples. A separate hands on practice was also done.
- **Large-Scale Grid Integration of Renewable Sources: Challenges, Issues, Modeling and Solutions.** organized by Department of Electrical Engineering, National Institute of Technology Srinagar, India, from 23rd - 27th september, 2020. The main objective of this STC was to make aware the participants about the various challenges, issues and complexities involved with large grid penetration of renewable energy system and their possible solutions with effective coordination control methods.
- **Advanced Control of Standalone Energy Systems.** organized by Department of Electrical Engineering, National Institute of Technology Srinagar, India, from 13th - 17th june, 2020.
- **Introduction and Basics of Programming Skills using MATLAB and PYTHON.** organized by Department of Electrical Engineering, National Institute of Technology Srinagar, India, from 23rd june to 27th june, 2019.

- **Effective Research Planning and Execution.** Organized by Department of Electrical Engineering, National Institute of Technology Srinagar, Conducted by Elsevier on Nov 17, 2021.

AREAS OF INTEREST

- **Renewable Energy Sources**
Modelling, Control, Grid Integration and Ancillary Support Services.
- **Modelling of Power System Components**
- **FACT devices and Energy Storage Devices**
- **Reactive Power Management of two area Systems.**
- **Intelligent Controls**
Nature-Inspired Optimization Algorithms for Power System Applications, Artificial Intelligence-based control, Data-driven model control.

PUBLICATIONS

1. **Aabid Hussain Sheikh, Farhad Ilahi Bakhsh**“**Optimal power flow through variable frequency transformer using different optimization techniques.**” *Distributed generation and alternate energy journal* (River Publisher).
2. **Aabid Hussain Sheikh, Farhad Ilahi Bakhsh**“**Maximum power extraction and monitoring from wind power generation system using intelligent controllers.**” *Soft Computing in Condition Monitoring and Diagnostics of Electrical and Mechanical Systems: Novel Methods for Condition Monitoring and Diagnostics.* Springer
3. **Aabid Hussain Sheikh, Farhad Ilahi Bakhsh**“ **Sustainable Development and Applications of Variable Frequency Transformer (VFT)(SETA).**
4. **Aabid Hussain Sheikh, Farhad Ilahi Bakhsh**“**Improvement in Sustainability of Power Grids using Variable Frequency Transformer (VFT)**” (EPSR).
5. **Aabid Hussain Sheikh, Farhad Ilahi Bakhsh.** “**Coordinated Control of Variable Frequency Transformer (VFT) and STATCOM for Power System Sustainability**” (circuit theory and applications).

EXTRA-CURRICULAR ACTIVITIES

- *IEEE student branch chairman at NIT Srinagar.*
- *Organised and carried out five-day and two-day short-term courses and workshops held at NIT Srinagar.*
- *Actively hosted a five day workshop on advanced control of standalone energy systems held at NIT srinagar.*
- *Teaching assistance at NIT Srinagar from September 2018 till now to assist with teaching and lab work.*

PERSONAL PROFILE

Name : Aabid Hussain Sheikh

D.O.B : 25-04-1991

Marital Status : Unmarried

Languages Known : English, Hindi, Urdu, Kashmiri

Hobbies : Reading, Teaching, Football, cricket

REFERENCE

References will be provided on request