

Muhammad Fawad

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CAREER OBJECTIVE:

Being a student of electrical power engineering, I want to achieve my goals and pursue a challenging career and be a part of progressive organization that give a scope to enhance my knowledge and utilizing my skills towards the growth of the organization.

EDUCATION:

B.E Electrical Engineering	Pre-Engineering [HSC]	Matriculation [SSC]
2014 – 2018	2012-2014	2010-2012
Sukkur IBA University	BISE, Sukkur	BISE, Sukkur
CGPA 3.35 (87.23%)	76.94%	76.36%
	A- Grade	A- Grade

ACADEMIC ACHIEVEMENT:

- Winner Circuit Designing Competition SIBACOM 2017
- Winner Circuit Designing Competition MUET SZAB 2017
- 1st Runner up Circuit Designing Competition SIBACOM 2016

MAJOR COURSES:

HVDC Power Transmission, Advanced Electrical Machines And Drives, Health, Safety And Environment, Power Generation, Renewable Energy Systems, Power System Protection, Power System Stability And Control And Power System Analysis.

JOURNAL PUBLICATIONS:

1. “Technical and economical evaluation of Proton Exchange Membrane (PEM) Fuel Cell for commercial applications”, Sunny Katyara, Izykowski J, Staszewski Ł, **Mohammad Fawad Shaikh**. Published in Present Problem Of Power System Control, Wroclaw University of Technology Publishing House, Poland

ON-GOING RESEARCH

1. **Muhammad Fawad Shaikh**, Sunny Katyara “Analysis and compensation of capacitor bank switching transients using phase angle jump estimation(PAJE) method”
2. **Muhammad Fawad Shaikh**, Ghulam Akbar, Sunny Katyara “Diagnosis and evaluation of different types of faults in induction motor”
3. **Muhammad Fawad Shaikh**, Sunny Katyara “Analyze The Effect Of Distributed Generation(DG) On HV And LV Line Under Load Shedding”
4. Ghulam Akbar, **Muhammad Fawad Shaikh**, Sunny Katyara “Analysis Of Power Quality Issues In Interconnected Ring Distribution System”

5. **Muhammad Fawad Shaikh**, Sunny Katyara “Analysis And Determination Of Phase Angle Jump During Various Types Of Faults And Unbalance”
6. **Muhammad Fawad Shaikh**, Raheel Nadeem, Malik Shah Mehmmod, Sunny Katyara “Mitigation Of Capacitor Bank Switching Transients With Synchronous Switching”
7. **Muhammad Fawad Shaikh**, Sunny Katyara “Effect Of Phase Angle Jump On the Controlled Rectifiers”

BACHELOR’S THESIS

- THD analysis and compensation of shunt capacitor bank switching produced as 132kV grid station

MAJOR TERM PAPER / PROJECT / REPORTS

- GSM based automatic control system.
- GUI based radar system by using Arduino.
- RFID based door lock system.
- Business plan on swarm particle solar PV inverter.
- Complete modeling of feeder and distributor Matlab Simulink based
- Design of 1MW grid connected solar farm in Matlab Simulink
- Design of automatic adaptive load shedding using ROCOF relay Matlab Simulink
- Transient and steady state analysis of SLD of Sukkur IBA University when capacitor Bank is switched Matlab Simulink
- Report on INVOLLEX new way to harvest energy
- Design and analyze the thermal model of house and their cost heating analysis Matlab Simulink
- Perform open and short circuit test on transformer and analyze the results in Matlab Simulink
- Microcontroller 8051 based interface of keypad and seven segment display
- Water level indicator using multiplexing technique
- Design of time delay application with 4x4 keypad input using 8081 microprocessor in Proteus
- Simulation of “Finding the exact fault location in 750kV grid under various types of faults by using Matlab Simulink”.

INDUSTRIAL VISITS :

- Guddu Power Station
- MEPCO

INTERNSHIP :

- ENGRO Fertilizers Daharki [15-Jun-2018 To 20-Aug-2018]

SCHOLARSHIPS AWARDED

- Sindh Endowment Scholarship [2014-2018]

EXTRA-CURRICULAR ACTIVITIES

- Member Engineering Society 2017.
- Co-Trainer Of Arduino Workshop 2017
- Co-Trainer of Multisim Workshop 2017.

SKILLS

- Skilled in Software's Like Multisim, MATLAB SIMULINK, MS Office, ETAP ,LTSpice And Proteus.
- Expert in Matlab SIMULINK to design power systems