Sijoy Raphael

Teaching Assistant
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Career Objectives

To contribute a great deal towards the successful attainment of the vision and mission of an internationally renowned educational leader by working as a sincere, dedicated and proactive faculty member.

Professional Profile

- Post graduate in electrical power systems engineering.
- 16 years' experience in the electrical engineering faculty of Qatar University.
- First time recipient of Best Teaching Assistant award in College of Engineering in Qatar University (2012).
- Well verse in assessment and quality assurance processes, deputed as College wide coordinator for Accreditation and Assessment.
- Knowledge in power system load flow and short circuit studies.
- Understanding of FACTS devices in HV and EHV systems.
- Hands on experience in Real Time Digital Simulator (RTDS).
- Proficient in power system simulation tools such as Matlab/Simulink, EDSA and PowerWorld Simulator.

Education

MS in Electrical Power Systems (Distinction), University of Bath, UK, 2010.
Dissertation Title: UPFC for Grid Connected Wind Farms with Low Voltage Ride Through Capability

BTech in Electrical & Electronics Engineering (First Class), Calicut University, India, 1998.

Publications

Raphael, Sijoy; Massoud, Ahmed, "Low Voltage Ride through Capability of Grid-Connected High-Power Renewable Energy Systems Employing Unified Power Flow Controller", Transactions on Systems, Signals & Devices, Vol. 7, No. 2, pp. 1-14, 2012.

Raphael, Sijoy; Massoud, Ahmed, "Static synchronous series compensator for low voltage ride through capability of wind energy systems ", IET Renewable Power Generation Conference 2011, 6-8 September 2011, Edinburgh, UK.
DOI: 10.1049/cp.2011.0223, IEEE Conferences, IEEE Xplore

Raphael, Sijoy; Massoud, Ahmed, "Unified power flow controller for low voltage ride through capability of wind-based renewable energy grid-connected systems", 8th International Multi-Conference on Systems, Signals and Devices, 22-25 March 2011, Sousse, Tunisia.
DOI: 10.1109/SSD.2011.5767399, IEEE Conferences, IEEE Xplore

Experience

Date: July 2001 – Till date
Organization: Qatar University
Job title: Teaching Assistant, Dept. of Electrical Engineering

Qatar University is the only national University in Qatar. The electrical engineering department is a regional leader in education and research with more than US$ 20 million research grant from National Priorities Research Program (NPRP). The Electrical Engineering program is accredited by Engineering Accreditation Commission (EAC) of Accreditation Board for Engineering & Technology (ABET) USA from 2005 onwards for its high quality in education and research.

Responsibilities include:

- Delivering tutorials and problem solving sessions for power systems and electric machines courses.
- Conducting and assessing the software and hardware laboratory sessions for power systems and electric machines courses.
- Participating in research and consultancy activities.

I was in the team for the following consultancy works.

- Measurement and Analysis of Harmonics for Qatar Gas Power System
  Principal Investigator: Dr. Khaled Ellithy
  Value: US$ 35,000
  Period: 2010
  Funded By: Qatar Gas

- Measurement and Evaluation of EMFs Exposure at Kahramaa (Qatar General Electricity & Water Corporation) EHV Power Lines and Distribution Substations
  Principal Investigator: Dr. Khaled Ellithy
  Value: US$ 100,000
  Period: 2009-2010
  Funded By: Kahramaa (Qatar General Electricity & Water Corporation)

As a member in the Curriculum Committee in the department from 2003, I played a leading role in successful ABET accreditation in the years 2005 and 2011. From Fall 2014, I was appointed in the College Curriculum Committee as the College wide Coordinator for Assessment & Accreditation activities and actively working towards the re-accreditation of all programs in 2017.

Date: Jan 1999 – Jan 2001
Organization: Kerala State Electricity Board
Job title: Shift Engineer - 110/66 KV Substation

Kerala State Electricity Board is a public sector utility company under the Government of Kerala that generates, transmits and distributes around 2500 MW of electric power in the state. KSEB has 23 hydroelectric power stations , two diesel power plants and one wind farm. It has around 350 MV/HV/EHV substations and more than 12000 circuit kilometers.

Responsibilities included:

- Monitoring the operation of substation on shift duty.
- Load Scheduling in the incoming and outgoing feeders.
- Efficient load dispatch to the industrial feeders and 66/11 KV substations.

Professional Memberships

Member, IEEE : # 90291201

Personal Information

Date of Birth : 5th May 1975
Sex : Male
Marital Status : Married
Nationality : Indian
Passport # : M3808222

References

Will be submitted on request.

Declaration

I hereby affirm that all the details furnished above are true to the best of my knowledge.

Sijoy Raphael Date: 25.04.2016