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MUHAMMAD UZAIR KHAN

OBJECTIVE

I am a highly motivated hard-working person working as a Lecturer at NED University of Engineering and Technology for the past five years. The teaching-learning, Research, office and other academic activities in which I was actively involved for the past five years allow me to grasp a strong teaching, research, administrative, organizational, communication, interpersonal and customer service skills that enable me to execute any given responsibilities individually and as a part of a team in a timely and efficient way.

EXPERIENCE

NED University of Engineering and Technology, Karachi — *Lecturer*

JULY 2016 - PRESENT

TEACHING:

Taught following courses during my career at NEDUET

- Basic Electrical Engineering
- Instrumentation & Measurement
- Feedback Control Systems
- Engineering Drawing
- Circuit Theory

Updated following Lab Manuals to meet OBE requirements.

- Engineering Drawing
- Circuit Analysis

NON-TEACHING:

- Currently working as Class Advisor in the department of electrical engineering.
- Learned following skills during my career
  - Persuasion, meeting deadlines
  - Formulated Innovative teaching approaches
  - Developed course content, revised the curriculum while increasing the rigor level according to bloom's taxonomy.
  - Accountable to the organization with the results and transformational change created while meeting deadlines.

DHA SUFFA University, Karachi — *Teaching Assistant*

2016

- Assists the Teachers of Electrical Department at SUFFA University
- Subjects preparation, Lectures
- Checking and analysis

EDUCATION

NED University of Engineering & Tech., Karachi — *PhD - Electrical*

(in progress)

Currently enrolled as a PhD scholar in the Department of Electrical Engineering (NEDUET) under the supervision of Dr. Riazuddin (Assistant Professor / PI - NCRA Lab).

NED University of Engineering & Tech., Karachi — *MEM - Energy Management*

AUGUST 2016 - NOVEMBER 2018 (CGPA: 3.79 out of 4.0)

Master's Dissertation:

Review and implementation of various Perturb & Observe based algorithms and design of optimized dc/dc converters for PV generation systems.

During dissertation, following aspects of the field were explored.

- Investigate different P&O maximum power point tracking techniques
- Design PV system on MATLAB
- Design different converters to get maximum power
- Make a comparison between converters for suitable application

Mehran University of Engineering and Technology , Jamshoro — *BE - Electrical Engineering*

2014 (CGPA: 3.76 out of 4.0)

Final Year Project:

Compensation of Voltage Regulation of Distribution Network using D-STATCOM.

Following are the highlights

- Group leader
- Collected, organized and modeled the data on MATLAB
- Analyzed the stability and dynamics of distribution system and diagnosed problem of voltage regulation

- Upgraded with D-STATCOM and reduced the problem of voltage mitigation
- Improved transient stability margin and steady state power transfer capacity
- Proposed the idea of installing D-STATCOM in industrial plants and in AC power network

LEADERSHIP

Communicator

Spoken on various issues with people having diversified line of careers

Strategy Maker

Made strategy and planning for a team in a gaming Competition which resulted in getting 1st Prize.

SKILLS

Competent command on MS Excel, PowerPoint, Visio, MATLAB, Project Management, Quantitative Analysis, Verbal reasoning and AUTOCAD

RESEARCH INTEREST

Control Systems, Haptics, Robotics, Power electronics.