

UZAIR AHMED
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Education:

M.S Electrical Engineering: Lahore University of Management Sciences (CGPA 3.40 /4).

B.Sc. Electrical Engineering (Power): University of the Punjab, Lahore (CGPA 3.55 /4).

Research Interests:

Power System Planning, Constraints Identification for Energy Generation and Transmission, Power Electronics Converters, Renewable Energy Systems.

Research and Technical Experiences:

Syed Babar Ali School of Science and Engineering

LUMS, Lahore

~Research Associate, DC Micro Grids Research Group

July 2019 -Current

- Design and testing of various Power Electronic Converter topologies for higher power processing using PIC/dsPIC microcontrollers.
- Integration of multiple sensors with microcontrollers (PIC, dsPIC, Arduino boards) for making real-time decisions.
- Identification and procurement of cost-optimal equipment/electronic components as per specifications.
- Testing of the equipment and hardware electronic circuits as per the given standard operating procedures (SoPs).

Institute of Chemical Engineering

University of the Punjab, Lahore

~Visiting Lecturer, Introduction to Computer Programming

Feb 2019-May 2019

- Conducted weekly labs and tutorial sessions.
- Maintained weekly office hours and course files.
- Graded assignments, quizzes and semester Projects.

Syed Babar Ali School of Science and Engineering

LUMS, Lahore

~Teaching Assistant, Power System Planning/Students final year projects

Feb 2018-Dec 2018

- Data collection from WAPDA, NTDC and LESCO for different research projects.
- Detailed analysis (costing & energy estimation) for coal power plant installation in Punjab, Pakistan.
- Managed timeline and progress of 25 senior year research projects.
- Maintained weekly office hours and problem-solving sessions.

Syed Babar Ali School of Science and Engineering

LUMS, Lahore

~Teaching Assistant, Electrical Power Systems

February 2017 - May 2017

- Assisted the instructor in developing and demonstrating simulation labs on ETAP, MATLAB and Power World Simulator.
- Maintained weekly office hours and delivered tutorial sessions on complex problem-sets.
- Graded assignments, quizzes and labs.

National Transmission and Dispatch Company 220 kV Bund & Ravi Road Grid stations, Lahore

~Internship

June 2013 - July 2013

- Learned the operational standards of the 220 kV Power Grids.
- Submitted the technical report on several types of bus-bars and protection schemes in practice, and the standard maintenance procedures for transmission lines and affiliated equipment (circuit breakers, isolators, current and potential transformers.)