

Saad Ullah Durrani

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EDUCATION

Mirpur University of Sciences & Technology (MUST)

Mirpur, AJK

B.S Electrical (Power) Engineering

3.60/4.00 GPA

April 2017

Final Year Project: Hybrid Power source using Renewable Energy sources.

To design a Hybrid power source using Piezoelectricity, Solar energy and the main source (WAPDA).

Objective: To utilize the weight of bodies in electricity generation by using the concept of Piezoelectricity and the Solar energy harvester so as to make it a hybrid storage system for a better, uninterrupted and reliable service. Fully assembled hardware and a comprehensive research thesis are available in the library of Power Engineering department of University.

PROFESSIONAL EXPERIENCE

Power Development Organization

Sep 2017 to Feb 2018

Designation: Work charge Assistant Electrical Engineer

Department: Hydro-Electric Board

Project: Jhing Hydropower Project (14.4 MW)

National Transmission and Dispatch Company Ltd

June 2016 – July 2016

Designation: Intern

- Learnt about Gas Insulated Substation (GIS) working at 220KV.
- Got experience in the field of grid system operation.
- Learnt about how the maintenance of different types of equipment is carried out.
- Involved in testing of grid equipments i.e. Auto/Power Transformers, Circuit Breakers and Isolators.

Water and Power Development Authority (WAPDA)

August 2015 to Sep 2015

Designation: Intern

Company: Neelum Jhelum Hydropower Company (Pvt) Ltd

Project: Neelum Jhelum Hydroelectric Project, Muzaffarabad (C3 Site)

- Associated with senior consultants to understand the project by visiting the site.
- To check whether the generation system is so as to obtain maximum possible output.
- Studied the transmission system whether it is in accordance with the engineering economics or not.

RELATED COURSEWORK

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| ▪ AC Machines | ▪ Power Electronics |
| ▪ DC Machines and Transformers | ▪ Power System Operation and Control |
| ▪ Power Distribution and Utilization | ▪ Power System Protection |
| ▪ Power Transmission | ▪ Engineering Economics and Management |
| ▪ Conventional Power Generation | ▪ Electrical Machine Design |

ACCOMPLISHMENTS

Leadership Ability

- Executive Member of ORION-Society of Electrical Engineering MUST.
- Finance Leader of FBG International Organization-Pakistan Chapter.
- Executive Member of AAINA-Arts and Dramatic Society MUST.
- Executive Member of SOPE-Society of Power Engineering MUST.

June 2013 to August 2015
June 2016 to Present
January 2016 to June 2016
January 2016 to March 2017

ACADEMIC PROJECTS

- Electrification design of single-storey building.
- Study of 11KV feeder to University main campus.
- Using Barometer and measure wind speed at different spots in Mirpur for Wind Power Generation.
- Designing of Solar Powered irrigation system by using humidity sensors.
- Designing of automatic Solar tracking system using arduino.