

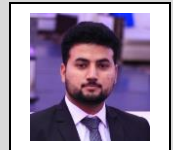
UZAIR ASIF

Electrical Engineer (ELECT/84962)

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RESEARCH INTERESTS:

Smart Grids, Renewable Energy Systems, Power Quality Improvement, Energy Harvesting, Applications of Power Electronics, Multi-level Inverters, Power System Optimization, High Voltage Engineering

ACADEMICS:

B.Sc. Electrical Engineering: UET Lahore	CGPA: 3.371	2016 - 2020
F.Sc. (Pre-Engineering): Govt. College Chowk Azam	Percentage: 89.09%	2014 - 2016
Matriculation: Super Public Higher Secondary School, Chowk Azam	Percentage: 87.90%	2012 - 2014

PUBLICATION:

International Conference on Smart Grid 2022, Istanbul, Turkey

June 2022

- ✓ Design and Implementation of 125 and 243 Level Cascaded H-Bridge Multilevel Inverter using Binary Search Algorithm

PROFESSIONAL EXPERIENCE:

Reon Energy Limited:

August 2021 to Current

Jr. Design Engineer

- ✓ Have designed 30MW+ solar systems till date
- ✓ Conduct site visits to collect Structural and Electrical information to use in the design
- ✓ Determine design criteria and specifications of Cables, Circuit Breakers, Inverters and so on
- ✓ Create models of Engineering Designs
- ✓ Perform Factory Acceptance Tests of Transformers and LV Panels

Four Brothers Energy Limited:

March 2021 to July 2021

Management Trainee Officer

- ✓ Perform remote monitoring and diagnostic operations
- ✓ Carry out tasks of a Field Service Engineer and perform firmware upgrades
- ✓ Carry out Plant performance calculation on regular basis
- ✓ Provide technical guidance to clients

Nestle:

4 weeks Summer Internship, 2019

Electrical Engineer Intern

- ✓ Comprehension of PLC, HMI, SCADA and DCS
- ✓ Interpretation of Powerhouse, Boilers, RO Plant and Engineering Management

Lahore Electric Supply Company:

8 weeks Summer Internship, 2019

Electrical Engineer Intern

- ✓ Grip on CT, PT, Capacitor Banks, Battery Rooms, and Relays
- ✓ Understanding of Lightening, Surges and Short Circuit Faults and their effects
- ✓ Grasp Corona Effect, Flash over Voltage and Breakdown mechanism

Kohinoor Mills Limited:

4 weeks Summer Internship, 2019

Electrical Engineer Intern

- ✓ Conception of HMI, PLC, and SCADA system
- ✓ Hands on experience of Generation and Distribution of Power

PROJECTS:

Three Phase Cascaded H-Bridge Multilevel Inverter

Final Year Project, 2019-2020

- ✓ Making use of Renewable Energy Resources
- ✓ Solving the problems of Power Quality by achieving Sine wave with 0-1% THD
- ✓ 125 Levels using 5-Cascaded H-Bridges
- ✓ Designed transformer and DC power supplies

<u>Pick and Place setup in factory IO using TIA Portal V15 and PLC SIM</u>	April 2020
✓ Pick and place setup installed in automation plants to reduce manual work by 80%	
<u>Controlled TRIAC using STM32f407</u>	April 2019
✓ Controlling the brightness of a bulb by changing the firing angle from 0 to 180 degree using STM32f407	
<u>Modelling and Analysis of a 5 bus Power System on PWS</u>	April 2019
✓ Observed the causes of faults and their effect on bus 1 to 5	
<u>Outlining and Analysis of SLD of Electrical Engineering Department of UET on ETAP</u>	Dec 2018
✓ Estimated power distribution on each phase	
✓ Calculated total power consumption by EED that was about 2MW.	
<u>Self-Balancing Robot through the Implementation of PID on STM32f407</u>	Dec 2018
✓ MPU 6050 for measuring angle of inclination	
✓ Motor driver L298N for commanding motors	
<u>Obstacle Avoiding Robot using TIVA TM4C123 Microcontroller</u>	April 2018
✓ Ultrasonic sensor HC-SR04 for obstacle detection	
✓ Motor driver L298N for powering the motors	

CO-CURRICULAR ACTIVITIES:

✓ Member of IEEE UET LHR	(2017)
✓ Organized All Pakistan Electrical Symposium (APES 18) at UET Lahore	(2018)
✓ Organized FYP Exhibition at Electrical Department, UET Lahore	(2019)
✓ Volunteer at Present Around The World (PATW) at UET Lahore	(2019)
✓ Organized DICE Virtual Innovation Competition 2019 at UET Lahore	(2019)
✓ Organized LaTeX Workshop at Electrical Department, UET Lahore	(2019)
✓ Internship of Graphic Designing and Video-Editing	(2019)
✓ Head Event Management Team in IET On Campus UET Lahore	(2020)
✓ Attended Safety Training OHSAS Certified Course	(2020)
✓ Runner Up in Badminton Championship at Electrical Department, UET Lahore	(2020)

COMPUTER PROFICIENCY:

- ✓ AutoCAD
- ✓ SketchUp
- ✓ PVSyst
- ✓ MATLAB
- ✓ TIA Portal for SIEMENS PLC
- ✓ Proteus
- ✓ Multisim
- ✓ Power World Simulator (PWS)
- ✓ Electrical Transient and Analysis Program (ETAP)
- ✓ Embedded Systems (Arduino, STM, Tiva)
- ✓ Microsoft Office
- ✓ Latex
- ✓ Winspace

INTERPERSONAL SKILLS:

Leadership Qualities | Effective Communication | Target Setting | Administrative Skills

INTERESTS:

Cricket | Socializing | Web Surfing