

ENGR. TALHA RAUF

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Personal Information

Father's Name	Abdul Rauf
Date of Birth	01 March 2000
Nationality	Pakistani
Passport No.	BU9988331
Country of Residence	Pakistan
Marital Status	Single
Gender	Male

Education

UNIVERSITY OF ENGINEERING AND TECHNOLOGY LAHORE <i>Bachelor of Electrical Engineering (3.057/4)</i>	Lahore, Pakistan Oct. 2018 - Oct. 2022
GOVERNMENT COLLEGE OF SCIENCE WAHDAT ROAD LAHORE Intermediate (935/1100)	Lahore, Pakistan May 2016 - May 2018
GOVERNMENT MODEL HIGH SCHOOL MODEL TOWN LAHORE Matric (913/1100)	Lahore, Pakistan March 2014 - March 2016

Professional Experience

PAK ELEKTRON LIMITED (PEL) *July 2023 – till date*
Pakistani Engineering Corporation which manufactures major home appliances and electrical equipment. PEL operates in two segments - power and appliances
Design Engineer
– *Transformer Engineering Department*

Responsibilities

- To handle the transformer related enquiries from marketing.
- To prepare the Technical Data Sheet and Material Cost according to the client's demand
- To design transformer according to approved Technical Data Sheet.
- To do research on design and development of a transformer

POWER SOLUTIONS PVT LTD (PSPL) *June 2022 – July 2023*
PSPL is an assembler and manufacturer of Distribution Board, LV/MV /HV, PFI, ATS Panels Switch gear.
Production & Site Engineer
– *Switch gear production department*

Projects

- Huawei project of relay-based AVR's (Automatic voltage regulators)
- KFC project of ATS, PFI, HVAC & LT panels
- Engro Enfrashare distribution boards
- 14 Street Pizza project of ATS, PFI and distribution panel

Responsibilities

- To coordinate with Huawei team for site access for LC & IPS installation
- To visit different sites with team for installation purpose
- To do all documentations and make presentations for Huawei for invoice generation
- To ensure that the production is done according to the given SLD, GA & BOQ given by the design and estimation department

CERTIFICATION OF ADVANCE EXCEL TRAINING

Dec. 2023 –Jan. 2024

- 01 Month Advanced Excel Training workshop from PEL

CERTIFICATION OF COMMUNICATION POWER WORKSHOP

September 2023

- Certification of Participating in Communication Power Workshop

CERTIFICATION OF HEALTH SAFETY AND ENVIRONMENT

April 2023

- Electrical Works Safety from HSE Culture Developers
- First Aid and CPR from HSE Culture Developers

Technical Skills

- | | |
|----------------------|---------------------|
| – MATLAB (Simulink) | -- Report Writing |
| – Proteus | -- MS Word |
| – ETAP | -- MS Excel |
| – C & C+ | -- MS PowerPoint |
| – Python | -- MS Project |
| – AutoCAD | -- MS Visio |
| – SLDs | -- Research Writing |
| – Cable Calculations | -- Email Writing |
| – PCB Designing | -- SPSS |
| – Outlook | |

Professional Skills

- Analytical Thinking
- Problem Solving
- Team Player
- Communication Skills

Technical Writing Experience

DESIGN AND STUDY OF A MODIFIED CUK CONVERTER FOR RENEWABLE APPLICATIONS

June 2024

Design of new modified CUK Converter on Simulink.

Master's Thesis Project

- Design the new modified CUK Converter for renewable applications on MATLAB Simulink and compare the results with Conventional used DC DC Cuk Converter.

DESIGN & IMPLEMENTATION OF Z SOURCE INVERTER FOR MOTOR DRIVE

May 2021 -May 2022

Improvement in the THD factor of three phase inverter.

Team Leader

- Implement the methodology of three phase Z- source inverter with space vector PWM technique. This inverter has a unique impedance network coupled between the power source and converter circuit to provide the buck boost voltage at the output. This Z network has the ability to boost the input voltage and convert it into alternating current.

Extracurricular & Volunteer Experience

UET IEEE SOCIETY

March 2021 -May 2022

- *Finance Secretary*: Managed accounts and finance for the society supervising a team of 3 volunteers and generating periodic financial reports every semester.

Honors and Awards

ACADEMIC SCHOLARSHIPS

- Received full merit-based academic scholarship from University.

Oct. 2018-Oct.2022

PUBLICATIONS

- [Implementation and Performance Analysis of Z Source Inverter with Space Vector PWM Technique with Low THD Factor and High Gain](#)
- [Design and Performance Evaluation of Z-Source Inverter with Maximum Boost Control Method in PV Applications](#)

Additional

E-COMMERCE EXPERIENCE

- Former Daraz Seller
- Amazon FBA and Wholesale
- Facebook Ads and Marketing

INTERESTS

- Internet Surfing
- Reading
- Content Writing
- Research

LANGUAGES

- English
- Urdu