



Eman Dilawar

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ABOUT ME

Electrical Engineer

As an electrical engineer, I aim to enhance my technical expertise and stay current with advanced technologies. I plan to collaborate effectively with my team, tackle practical engineering challenges, and contribute to innovative solutions that drive the company's success while advancing my own professional growth.

INTERSHIPS

NATIONAL TELECOM CORPORATE, RAWALPINDI, Intern

[05/07/2022 - 20/08/2022]

- During my internship, I managed customer complaints and support, created excel sheets for faulty devices, learned to use U2000 and N2000 software, plus gained insight transmission infrastructure and devices.

PAKISTAN AERONAUTICAL COMPLEX, KAMRA, Intern

[12/09/2022 - 30/09/2022]

- In PAC, I gained comprehensive knowledge of aircraft maintenance, and visited four different factories: Aircraft Rebuild Factory, Avionics Production Factory, Mirage Rebuild Factory, Aircraft Manufacturing Factory.

EDUCATION AND TRAINING

BSc Electrical Engineering (Electronics & Tele-communication)

HITEC University [09/2019 - 07/2023], CGPA: 3.49

City: Taxila

Country: Pakistan

HSSC (Pre-Engineering)

Askaria College [08/2017 - 06/2019]

City: Rawalpindi

Country: Pakistan

SSC (Science)

FG Public Girls High School [08/2015 - 06/2017]

City: Rawalpindi

Country: Pakistan

DIGITAL SKILLS

Arduino / Machine Learning / Auto Cad / Python / Microsoft Office / Pspice / MATLAB / CISCO Packet Tracer

HOBBIES AND INTERESTS

Networking

Signal Processing

Artificial Intelligence

ACADEMIC PROJECTS

Federated Learning based Smart Healthcare System (FYP)

My Final Year Project focuses on training machine learning models collaboratively while keeping data decentralized and secure. Implementation typically involves techniques like Federated Averaging for model aggregation and privacy-preserving methods to ensure data confidentiality.

Buck-Boost Converter

In this project, Buck-Boost converter adjusts the input voltage by switching an inductor and capacitor to either step up or step down the voltage. A control signal manages the switching to maintain the desired output voltage efficiently.

Home Automation System

A home automation project integrates various systems and devices using sensors, controllers, and network interfaces to enable centralized management and remote operation of home functions such as lighting, climate control, and security, optimizing convenience and efficiency.

Solar Tracking System

We adjust solar panels to follow the light movement, maximizing light capture and increasing electricity generation. It uses sensors to detect the light's position and a mechanism to move the panels accordingly.

CERTIFICATION

HCIA-Routing and Switching

Autonomous Vehicles and its future

HI-ROBO TECH (Member of Technical Team)

Consumer Behaviour on using Electricity

LANGUAGE SKILLS

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Arabic

LISTENING A1 **READING** A1 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user
