

SUHAANA YOUNUS

D/O Muhammad Younus

Electrical Engineer

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An ambitious Electrical Engineer with strong technical skills and a passion for innovation. Actively seeking an entry-level position to apply my knowledge and contribute to a dynamic team

✓ PROJECTS

Final Year Project (FYP)

Design and Development of Face Recognition and attendance system by using PYNQ FPGA

- Designed real-time Face Detection using Haar cascades on PYNQ FPGA and employed LBPH algorithm for precise Face Recognition.
- Developed parallelized logic for optimized FPGA processing, leading to efficient Face Recognition and Attendance System deployment.

Semester Projects

- PLC-based Automatic Security System
- PLC-based traffic lights with HMI
- Inverter
- Incubator using Arduino UNO
- Microstrip Antenna Design
- Home Automation Using ESP32

✓ MAJOR COURSES

- Industrial Control & Automation
- Fundamentals of Electronics
- Electronic circuit design
- Linear Circuit Analysis
- Linear Control System
- PowerElectronics
- FPGA
- Digital Image Processing

✓ ACHIEVEMENTS

- Runner Up Price For My SemesterProject In SPEC-21.
- Runner Up Price In Speed Wiring Competition In SPEC-21.
- Runner Up Price In Mind Quest.

✓ ACADEMICS

BACHELOR OF ENGINEERING IN ELECTRICAL | 2024

KARACHI INSTITUTE OF ECONOMICS AND TECHNOLOGY

Major in Electronics (**3.5 CGPA**)

✓ INTERNSHIP EXPERIENCE

AUG 2023

INTERN | PAKISTAN INTERNATIONAL AIRLINE (PIA)

- Participating in site visits to critical aviation departments including Components Maintenance Division (CMD), Line Maintenance Division (LMD), Base Maintenance Division (BMD), and Power Plant Overhauling (PPOH).
- Focused on the Boeing 777 cockpit communication system, gaining valuable insights into aviation technology and safety.

FEB 2023

INTERN | PAKISTAN AERONAUTICAL COMPLEX KAMRA

- Gained experience in aircraft maintenance.
- Repair and overhauling also worked alongside skilled engineers and technicians.
- Learned about precision in aircraft maintenance processes and gained valuable insights into the aviation industry

AUG 2022 – NOV 2022

IOT INTERN | MINDSTORM ENGINEERING

- Extensive knowledge in Industrial Automation 4.0 and emerging technologies.
- Proficient use of sensors, including DHT, Ultrasonic, IR, and PIR sensors, for IoT solutions with NodeMCU and ESP32 kits.
- Demonstrated expertise in connecting IoT devices to cloud platforms (Firebase, Thingspeak, IFTTT) and practical app development using MIT App Inventor.

✓ SKILLS

• Technical Skills

- I. Circuit Designing
- II. Troubleshooting
- III. Hardware skills
- IV. Softwares:
 - MATLAB/ Simulink
 - Microsoft Office
 - Proteus
 - MP Lab
 - LAB View

• Other Skills

- I. Good Communication
- II. Time Management
- III. Decision-making
- IV. Quick Learner
- V. Problem Solver
- VI. Innovative