MUHAMMAD AQEEL IJAZ

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Objective:

Looking forward to contribute my skills and efforts in an organization that provides a challenging, motivating and friendly environment which enables personal and professional growth utilizing my abilities to maximum potential.

Work Experience:

1- Electrical Engineering Services, Lahore Pakistan

Electrical Engineering Services is a co-worker of Infinit Technologies USA. These companies are specialized to manufacture educational trainers for different engineering fields.

> **Electrical and Instrumentation Engineer**   (Oct 2016 to Present)

As an **Electrical and Instrumentation Engineer**, my responsibilities are

- Designing Data Acquisition Software's for Signal Processing by using LabVIEW and **National Instruments** DAQ Devices(6001,6002,6003,6210,myRIO).
- Design Monitoring Systems through Serial Communication for **PLCs, TOHO, Autonics & NanYoung** Digital Industrial Controllers.
- Circuit Designing, Testing of Boards, Modules and Trainers Related to Electrical, Digital logic, Electronics, PLC and Power Electronics.
- Update Design and Manual of these Boards, Modules and Trainers.
- Inspection and quality check for every instrument and Application Software
- Have worked on different sensors (Thermo couple, Load cell, Proximity, LVDT, Hall Effect, Metal detector, Optocoupler, Pressure sensor, Flow sensor, Encoder, Strain Gauge and Humidity).

<u>**Recent Projects:**</u>

- **Building Management Monitoring System using LabVIEW.**
- **Balancing of Reciprocating Engine Analyzer using LabVIEW.**
- **Impact Testing Machine Monitoring System using LabVIEW**
- **Soft and Flexible Multi channel Oscilloscope using LabVIEW.**
- **Software Based vibration Analyzer & Logger using LabVIEW.**
- **Universal Truss Analyzer & Logger using LabVIEW.**
- **Torsion Testing Analyzer using LabVIEW.**
- **PLC Monitoring with LabVIEW.**
- **Mini Steam Gas Turbine Monitoring System Using LabVIEW.**
- **Color Recognition by using image processing in LabVIEW.**
- **Object Tracking by using image processing in LabVIEW.**
- **Water Cooling Tower Monitoring System Using LabVIEW.**
- **SCADA Design using LabVIEW.**

Education:

M.Sc Electrical Engineering, UET Lahore (In Progress)
Major Subjects: Machine Learning, Image Processing, Embedded System Design.

Bachelor of Electrical Engineering, Air University Islamabad
Major Subjects: Power, Industrial Automation, Electronics, Power Electronics.
CGPA: 3.35/4,   Grade: A+,   Division: 1st,   Percentage: 83%

F.Sc (Pre-Engineering), B.I.S.E Lahore
Marks: 849/1100,   Grade: A,   Division: 1st,   Percentage: 77%

Matric (Science), B.I.S.E Lahore
Marks: 652/850,   Grade: A,   Division: 1st,   Percentage: 76%

Awards & Achievements:

Our Final Year Project standing **2nd** (Electrical Department) in Open House 2016 held at Air University.

Final year project: Design and Implementation of Pulse Oximeter:

Our project is medical equipment which is use to find the Heart Beat and oxygen level of patients. In this project we use Spo2 sensor to get patient data and forward this data to Arduino module for further calculation and then display Heart Beat and oxygen level of patient on LCD. We connect ethernet shield with our Arduino module that send the data to the local server Ip and we develop an android app that access the local server IP data. By using this app doctors can analyze their patient's condition easily even they are sitting in their offices.

Academic Projects:

- H-Bridge Motor Controller
- Digital Clock
- DC Power Supplies
- Design Step down Transformer (220V to12V).
- Single Phase AC to three Phase AC converter.
- Stop watch using 8051 Microcontroller.
- Design GUI to Control Position and Speed of DC Motor using PID in LabVIEW.

Trainings, Tours & Seminars Attended:

- Seminar on Energy Crisis (Air University)
- Industrial tour to Pepsi Factory (Faisalabad)
- International Conference on Renewable Energy Sources (Air University)

Skills:

- **LabVIEW , Multisim , PSpice , Orcad , Packet Tracer**
- **Microwind , Tasm ,Android Studio , Eclipse**
- **Keil Complier, 8051 Controller, Win Pro Ladder, Easy Builder**
- **Xilinx, MATLAB, Proteus, Visual Studio**
- **Proficient in MS Office.**
- **Analytical and Numerical Skills**
- **Leadership Skills**

Computer Programmings:

Verilog, Matlab, Assembly language, C++, Graphical Programming

Hobbies & Interests:

Reading IEEE paper and their Implementation, Circuit Designing, Programming

References:

Provided on demand.