

Adeel Sajjad

Mechatronics Engineer

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Summary

Industry expert in Automation Engineering with excellent understanding of PLC , HMI , Servo Drives , Inverters , CNC Miaintenance , CNC Programming , Gear Manufacturing , Embedded System

Work experience

Development Manager 2017 - 2018

Mumtaz Metal Care Pvt LTD

- During my Career in Mumtaz Metal Care pvt LTD I have done numerous projects on Development of Atlas Honda Parts and Automation

1) Pedal Gear Development

- CD 70 Pedal Gear
- CG 125 Pedal Gear
- Deluxe 125 Pedal Gear
- Honda Pridor 125 Pedal Gear

2) BOSS Section In House Machinery Installation

- Auto Lathes
- Drill Machines
- Hydraulic Press
- Milling Machines
- Tapping Machine

3) CNC Maintenance

Have done work on troubleshooting of large number of cnc machines

4) Milling Machines

PLC based panel making of Hydraulic Milling Machines

- Delta PLC
- Wientek HMI
- Incremental Encoders interface with PLC
- Control Valve

5) Nickle/Chrome Plant Automation

- PLC
- MTV100 Wientek HMI Display on Haier LCD
- Processing Line Automation
- Automation of Temperature Control of Plant

6) Bending Press Automation

- Delta PLC
- Wientek HMI
- Absolute Linear Encoder Interface

Core Competencies

- Electrical Engineering
- PLC
- HMI
- Servo Drives Installation
- Inverter Installation
- Mechanical Engineering
- CNC Programming
- Web Development
- CNC Control Installation

Technical Summary

WEB DEVELOPMENT



HTML

CSS

Javascript

Bootstrap

PHP

PNEUMATIC SYSTEM



Pneumatic system Panel Design & wiring

HYDRAULIC SYSTEM



Hydraulic system Panel Design & wiring

ELECTRONICS REPAIRING



Electronic Cards Troubleshoot

PLC Programming



- Siemens
- Delta
- Mitsubishi
- Fatek
- LG

Cnc Control Installation & Troubleshoot



- Fanuc

iv)Proportional Valve

- TOP CNC
- SZGH
- GSK
- ADTECH

Automation Engineer

2016 - 2017

Electro Traders

During my journey in ElectroTraders I have done numerous Projects in various companies

1) **Asian Foods(Mayfair)**

Data Sampling & production record monitoring of biscuits on LCD

- i)S7 1200 to S7 1200 Communication
- ii)HMI Design (Wientek MTV 100)
- iii)Data Sampling (Production record history in USB)
- iv)Analog module installation

2) **Eco Pack**

Air Pressure control using Compressor (300KVA)

- i)PID Control using S7 1200 CPU
- ii)HMI Design (PID Setting)
- iii)IO's Monitoring(Fault Tracking)
- iv)Alarm Display
- v)Password Protection
- vi)SSR Solenoid Pneumatic Valve

3) **Siemens Trainer**

Siemens Trainer for training Engineers in Automation

- i)S7 300 Trainer
- ii)S7 200 Trainer
- iii)S7 1200 Trainer
- iv)Siemens Logo PLC Trainer
- v)Siemens HMI Trainer
- vi)Analog Module,signal Module & Communication Module Trainer

4) **Haleeb Foods**

UHT#2 Tank control & monitoring

- i)HMI Design(Trend Display)
- ii)S7 300 Programming

5) **Crescent Power Plant**

Compact Heat Exchanger for fuel tank of 6MW Diesel generator

- i)Temperature Control
- ii)PID Control using S7 1200
- iii)HMI Design(PID Parameter Setting & monitoring)
- iv)SSR Contactor & Magnetic Contactor Control

5) **Panther Tyres**

- i)Scada System (Control & Monitoring)
- ii)Web Navigation (Server & Client)
- iii)Web UX (For Mobile & Tablets Monitoring & Control Process)

6) **Testing**

HMI Programming



- Weintek
- Delta
- Siemens
- Touchwin

ELECTRIC PANEL & SWITCHGEAR



- Designing & Wiring any type of Panels including Relay Logic

i)S7 200, S7 300 & Siemens Logo PLC CPU Testing

ii)Digital & Analog Module Testing

Electrical Manager

2015 - 2016

Mannan & Shahid Forging Limited

During my Career in Mannan & Shahid I have done numerous projects on Machines
Panel Building on PLC

1)Gear Hobbing

i)Panel Design

ii)Panel Wiring

iii)PLC Programming (FATEK PLC)

2)Gear Hobbing

i)Micrologix 1200 Program Editing & Troubleshoot

3)CNC Maintenance

Have done work on troubleshooting of large number of cnc machines

4)Shaver Machines

Troubleshooting & PLC based panel making of shaver Machines

5) Milling

Make panel of Auto indexing milling Machine using

i)Relays & Counter

ii)Solenoid Pneumatic (Valve&Cylinders)

6) Tooth Rounding Machine

Make panel of Auto passes Selection machine using PLC

7) Motor Control

i)Star Delta Motor Panel Design & Wiring

ii)Three Phase 4 speed Drill Machine motorPanel Design & Wiring

iii)Motor forward/reverse interlockPanel Design & Wiring

8) Temperature Control

i)Temperature Control Panel Design & Wiring

Education

Bsc Mechatronics Engineering

2011 - 2015

University of Engineering & Technology Lahore

CGPA 2.814/4.00

Fsc Pre Engineering

2009 - 2011

Government Shalimar College Lahore

Marks 864/1100

Open Cast Mining and Quarrying – CESECO

2007 - 2009

PAF School Lahore

Marks 895/1050

Career Development

- Mechanical Engineering
- Electrical Engineering
- Automation
- Web Developemnt