**MUZAMMIL MUGHAL**

**ELECTRICAL & AUTOMATION ENGINEER**

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**SUMMARY**

Bachelors in mechatronics and control engineering with industrial electrical and automation experience, my primary area of interest being **Electrical & Automation Engineer**, where I can enhance my skills in organization that emphasizes results and give employees the opportunity to assume greater responsibilities and career growth.

**SNAPSHOT**

**Electrical and Automation Engineer with 5+ years of experience in Industrial Automation**

* Experience in installation of machines, PLC Programming. Electrical circuit design, testing and commissioning at site, plant startup activities, troubleshooting and fault eliminations.
* Leading project activities carried out through implementation, quality assurance, delivery and support phases.
* Proficient in supervising & controlling the automation process & services at vendor’s end, providing valuable suggestions for efficiency management.
* Creating project’s solution architecture.
* Proficient in Siemens PLC S7-300, S7-400, S7-1500 (TIA).
* Practical experience of communication protocol MPI, Profibus, TCP/IP. Familiarity with Zenon 6.20, 6.22, 7.10, 8.0.
* Taking care of technical information needed related to the projects.

**EXPERIENCE**

**ELECTRICAL ENGINEER**

[**Integrated**](https://www.linkedin.com/company/1575815?trk=prof-exp-company-name) **packaging systems IPS, Krones AG, Saudi Arabia, January 2018 – Present**

**PROJECT DESCRIPTION:**

* Global Beverages Company, Saudi Arabia. 81000 BPH PET lines (1 Riyadh, 2 Jeddah, 1 Qassim) & 22000 BPH Glass line
* Oman Milk Salalah, Oman. 72000 BPH Can Line.
* Oman Refreshment Company (Pepsi Cola), Oman. 24000 BPH PET line (Aseptic)
* Rest Water Factory, Saudi Arabia. 81000 BPH PET line
* Naba Water Factory, Saudi Arabia. 81000 BPH PET line.
* NBC Coco-cola Bottling plant, Nigeria. Glass line 20000 BPH & PET line 45000 BPH.

**KEY RESULT AREAS:**

* Involved in installation, startup, troubleshooting and commissioning activities of beverage which includes Variopac Pro (T, FS, TFS, PFS) , Wrap around carton, Modulpal Pro + Grouping System (Robobox) , PHM handler, MultiCo, PalCo and stretch wrapper.
* Programming and modification is PLC software as per site requirements. Also modifying electrical diagrams if required and updating the same.
* Carrying out technical trainings for client in aspects of operation, troubleshooting, preventive and corrective maintenance.
* Responsible for overseeing day to day activity of the team and making sure motivation and performance level are maintained.
* Making report, highlighting progress and concerned issues to higher management.

[**INSTRUMENTATION & CONTROL**](https://www.linkedin.com/vsearch/p?title=Shift+Engineer+-+Instrumentation+%26+Control&trk=prof-exp-title) **ENGINEER**

[**Pepsi Cola Lahore (Riaz Bottlers) Pvt Ltd**](https://www.linkedin.com/company/1575815?trk=prof-exp-company-name)**, May 2015 – April 2017**

**PROJECT DESCRIPTION:**

* KHS PET Bottles Filling Technology
* KRONES PET and Glass Bottles Filling Technology
* Nanjing Light Industry Glass Bottles Filling Technology
* Tetra Pak Filling Technology
* Husky Injection Molding Technology

**KEY RESULT AREAS:**

* Programming of Siemens PLCs (Simatic S7 300) with Ladder Diagram and quick understanding of Function Block Diagram and Statement List as well. Troubleshooting of PLC (Siemens) hardware as well as software problems and fault diagnosis.
* Developing Profi Bus Master System using Simatic Step 7. Hard ware trouble shooting on Beck Hoff PLC.
* Troubleshooting of Hardware and communication faults occurring at PROFIBUS, ASI, CAN and Ethernet communication protocols.
* Installation, commissioning and troubleshooting experience of AC/DC and Servo drive like Dan Foss (FC 300 series, FCD 300 series, VLT 2800 series, VLT 5000 series), SEW, KUKA and Acopos etc.
* Working experience and knowledge of following sensors; Proximity (inductive, capacitive), Photoelectric (PNP, NPN, Through Beam, Retro-Reflective, Diffuse-Reflective), Temperature (Thermocouple, RTD, Thermistor), RTD (PT100, PT1000, 2-wire, 3-wire, 4-Wire)
* Troubleshooting of ASI Master Slave network. Calibration of temperature and pressure transmitters.
* Control panel testing and operational checking as per drawing.
* Strong background in motor defects, soft starters, drives and star/delta starters.
* Handling modification or breakdown in running unit Planning and implementing additional control loops as per site requirements
* Preventive maintenance of instruments drives and control panels as per schedule and managing Manpower and Material
* Spares balance investigation and inventory control for all instruments’ spare parts
* Design the procedure of electrical troubleshooting on each machine to decrease the breakdown.
* Alters electrical control or design of machine as per requirement after getting discussed with concerned section heads of production after looking all the advantages and disadvantages of this alteration.
* Development and update of SOPs of production lines. Determination of maintenance jobs and their scheduling after discussion with section head.

**INTERPERSONAL SKILLS**

* Effective communicator & team member combined with flexible and detail-oriented attitude.
* Excellent interpersonal, analytical, public relationship management skill.

**TRAININGS**

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| **TITLE** | **ORGANIZATION** |
| Variopac Pro | Krones Ag |
| ModulPal Pro | Krones Ag |
| Electric Basic 1 | Krones Ag |
| MultiCo | Krones Ag |
| TIA Portal | Krones Ag |
| Zenon Explorer V7.10 | Krones Ag |

**QUALIFICATIONS**

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| --- | --- | --- | --- | --- |
| **DEGREE** |  **MAJORS** |  **YEAR** | **CGPA/PERCENTAGE** |  **INSTITUTE** |
|  B.Sc. | Mechatronics and Control  Engineering  | 2010-2014 |  3.614 | University of Engineering and Technology, Lahore |

**ACTIVITIES**

Internet applications, cricket, football, electronic sports

**PERSONAL INFORMATION**

**Age:** 28 Years **| Marital Status:** Married **| Nationality:** Bahraini