

Karan Kumar

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Industrial Automation and Control Systems Project Management & Technical Support

INTRODUCTION:

- ❖ Competent, highly organized, and performance-driven professional, offering **05 years 05 Months'** experience in Industrial Automation and Control based projects.
 - ❖ A keen planner, strategist & implementer with demonstrated abilities in setting up as well as ensuring smooth functioning of overall plant operations & Drive system in Process industries.
 - ❖ Dexterity in project coordination activities entailing planning, scheduling, negotiations with the client for service level agreements/ terms as well as application maintenance & enhancement, project progress monitoring, reporting to stakeholders and delivery as per quality, time and budgetary norms.
 - ❖ Exemplify extensive knowledge in developing architecture of project system, implementing creative solution and problem management and its resolution for new and existing systems
 - ❖ Take full accountability in designing business solutions. Highly skilled in Design, Development, Project Integration, Documentation and Customer's Training to deliver value-added services to clients. Well versed on implementation of automation tool and equipment.
 - ❖ Keen interests towards Industrial Automation, Automation Software Programming, Panel Designing, Device Integration & Up gradation and Electronic Device & Electrical Machines.
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COMPETENCY COVERS:

- ❖ Project Management and Operations
 - ❖ Process Automation
 - ❖ Installation, Engineering, Commissioning & Troubleshooting
 - ❖ Site Acceptance Test, Commissioning And Start-Up
 - ❖ Team Management and Trainings
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WORK EXPERIENCE & PROJECT HANDLED:

Currently working as a **Sr. Project Engineer** from **15/12/2021** with **SSM InfoTech Solutions Pvt. Ltd.** Delhi is an (Authorized distributor of AVEVA) in India. We have over 19 years of expertise in Industrial customized Software Solutions X-Force, Process / Automation panel designing, It also offer and undertake need for all types of Fire and Gas detection System/Fire Protection & Extinguishing Systems. Provide turnkey solution, Annual service Contract, Repairs/Modifications to existing system, Consultancy, Supply of Spares and Services & Industrial SCADA development (AVEVA), and IT support-services.

1. Installation, testing, integration & commissioning of Infeed, Rotary Station 1 & 2, Dryer 1 & 2, Oven and End of Line at Johnson's Matthey Plant at Bawal (Haryana)

Previously working as a **Sr. Project Engineer** from **1/5/2018** to **10/12/2020** with **Nocle System & Control Pvt. Ltd.** Noida (Authorized System Integrator of Rockwell Automation). It is an engineering solution provider and pioneer in Industrial Automation, Integrated Solutions and Services. It also offer and undertake need for all types of Fire and Gas detection System/Fire Protection & Extinguishing Systems. Provide turnkey solution, Annual service Contract, Repairs/Modifications to existing system, Consultancy, Supply of Spares and Services.

1. Installation of optical fiber cable in Rockwell PLC system of stage-2 ADPH and Procurement of Rockwell PLC spares.
2. Supply, installation, testing, integration & commissioning of Network wide Integrated management system for Doha Metro of Gold Line & Red Line North.

Previously working as **Project Engineer** from **05/02/2016** to **25/4/2018**. in **I & B Automation and Controls Systems** Noida (Authorized System Integrator of Rockwell Automation) is a customer driven and solution oriented company engaged in delivering high quality and cost effective custom-built automation and drive systems that are cost effective, durable and tailored to manufacturing needs. **I&B AUTOMATION & CONTROLS PVT. LTD.**

Qualitatively assure that it is the one stop destination for all Automation and Control requirements. We intend to achieve this by exceeding customers' expectations, offering products and services of a quality ahead of industry norms.

1. Installation, Testing, commissioning & integration of SCADA system for Tyre Testing Machine (Two station VMI-1 & VMI-2) of JK TYRE's, Kankroli.
 2. Installation, Testing, commissioning & integration of SCADA & HMI system for Tyre Testing Machine (Four station VMI-1) of JK TYRE's, Laksar.
 3. Installation, Testing, commissioning & integration of SCADA, Servo Drive system for Tyre Balancing Machine of JK TYRE's, Mysore.
 4. Installation, Testing, commissioning & integration of SCADA & HMI system for Tyre Inflation Machine of JK TYRE's, Laksar.
 5. Installation, Testing, commissioning & integration of SCADA & HMI system for Paper Machine of Khana Paper Mill(Amritsar)
 6. Installation, Testing, commissioning & integration of SCADA for Paper Cutter Machine of Khana Paper Mill (Amritsar).
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TECHNICAL SKILLS:

- ❖ Rockwell Automation **PLC** and **SCADA** System
 - ❖ Good Knowledge in Networking, Splicing of **OFC**, **OTDR** & troubleshooting in communication cables.
 - ❖ **PLCs: (Micro logix 1000, 1200, 1400, 1500, Compact Logix L16, L18.L43, L31ER, Control logix L82E, L85E)** Ladder Logic Development, Wiring & Troubleshooting.
 - ❖ **HMI: Panel view plus 600, Panel view plus 1000.**
 - ❖ **SCADA: RS View 32 Applications & Development, and FT View Studio**
 - ❖ In-depth knowledge in design, installation, testing & commissioning.
 - ❖ Expertise in instrument drawings, I/O wiring diagrams, P&IDs, calculation and specifications.
 - ❖ Ability to troubleshoot, repair and maintain instruments and instrumentation systems.
 - ❖ In depth knowledge of software Drive executive and **CCW**.
 - ❖ Understanding and troubleshooting problems pertaining to Allen Bradley Rockwell PLC System, Scada, HMI, **DRIVE**, Process instrument.
 - ❖ Setting up the communication link between panel, Nodes, **OFC** Patch codes, **RPA**, **RPFM** convertor Module and software using the **TCP-IP** protocol for download, transfer the program and checking the redundancy of CPU's. Part of Testing team during FAT (Factory Acceptance Test) of both the panels.
 - ❖ Establishing Soft Communication with third party system using **IEC104**, **BACnet & Modbus** protocol.
 - ❖ Configuration of the Network Topology based on System architecture, configuring the Rockwell Devices such as **AENTR**, **ETAP**, **ACCESS SWITCH** using the **BOOT-DHCP** and Rs Linx Classic Software's.
 - ❖ Monitoring and Supervisory activities related for the Cable pulling, cable routing, panel erection and commissioning of Field Mounted Single Channel Batch Controller, Explosion Proof Proximity Type Card Reader.
 - ❖ Hands on experience in linking of Global objects, Displays, parameter files, local Messages, alarms and event, system validation in SCADA factory talk view.
 - ❖ Configuring the RACKS of given Panel in the Unity PRO XLS (Schneider) software. Checking of DI, DO, AI modules with the help of simulation provided and perform Power on Testing of Process PLC and Safety PLC.
 - ❖ Setting up the communication link between panels **Ethernet**, **Control Net**, **Device Net**.
 - ❖ Hands on experience in Manage and Un-manage Switches.
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RESPONSIBILITIES:

- ❖ Interpret & Implement the client specified design documents, Sequence of operation, Software Design Specifications.
- ❖ Coordinating with technical, maintenance, and operations personnel to troubleshoot problems and assist in the implementation of new equipment, instrumentation, and controls.
- ❖ Generate and maintain detailed technical documents as required during the course of project execution.
- ❖ Manage and schedule daily activities and assigning team for execution of installation, termination and testing work & to be responsible for assigned project development activities involving design, development and technical liaison with suppliers, engineers and site activities associated with the projects.

- ❖ Rectification of field issues that occur during T&C activities.
- ❖ Responsible to Check and verify MEP and control devices installation.
- ❖ Responsible for SAT and SIT testing.
- ❖ Taking of overall responsibility for the performance and quality control of all BACS including Installation, testing commissioning, software changes etc.
- ❖ Coordinating onsite BACS activities, material procurement, and other related activities with System manager and field staff.
- ❖ Coordinating with MEP team for interfacing of all the MEP equipment with BACS
- ❖ Coordinating with all the vendors for interfacing and functionality test for the BACS interfaced equipment. Cooperate and communicate effectively with project manager and other project participants to provide assistance and technical support
- ❖ Review engineering deliverables and initiate appropriate corrective actions.

TRAINING:

- ❖ Attended training on Power Diesel Engine, Generators, Brushless Alternators at GNE Workshop Ludhiana.
- ❖ Attended training on industrial Automation and Software Training in I & B Automation and Controls Systems, Noida.

JOB ACHIEVEMENTS:

- ❖ Got Appreciation Letter work done for the commissioning of VMI-1 & VMI-2 Machine at **JK TYRE KANKROLI (TYRE TESTING MACHINE)**
- ❖ Got Appreciation Letter work done for the commissioning of New Spinning Machine at **JKTYRE, LAKSAR (TYRE INFLATION MACHINE)**
- ❖ Got Appreciated by **L&T** for the outstanding performance and achieving Milestone at **QATAR (DOHA QRAIL METRO)**
- ❖ Got Appreciated by **THALES** for the outstanding performance and achieving Milestone at **QATAR (DOHA QRAIL METRO)**
- ❖ Got Appreciated by **ALYSJ** for the outstanding performance and achieving Milestone at **QATAR (DOHA QRAIL METRO)**.
- ❖ Got Appreciated by **QRAIL** for the outstanding performance and achieving Milestone at **QATAR (DOHA QRAIL METRO)**
- ❖ **L&T** Team Appreciated by **ALYSJ** for the outstanding performance and achieving Milestone at **QATAR (DOHA QRAIL METRO)**

SCHOLASTICS:

- ❖ B.Tech (Electrical Engineering) from Shaheed Bhagat Singh State Technical Campus , Ferozpur (PTU), in 2016 Got 79% Marks
- ❖ Diploma (Electronics & Communication) from Saint Kabeer Pole technical College Fazilka in 2013 Got 81% Marks.
- ❖ 10th from SD Model School Fazilka (PSEB) in 2010 Got 76% Marks.

PERSONAL MINUTIAE

- ❖ Date of Birth 04 jan,1995
- ❖ Permanent Address Radha Swami Colony Fazilka, Punjab (152123)
- ❖ Father's Name MR. Satish Kumar Gandhi
- ❖ Marital Status Single
- ❖ Passport Number Z3623222
- ❖ Languages English, Hindi, Punjabi

Declaration: I hereby declare that all the information given above is true and correct to the best of my knowledge and belief.

KARAN KUMAR