

## BAIJU K JOHN

### AUTOMATION & CONTROLS ENGINEER

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#### PROFESSIONAL SUMMARY

Highly-Skilled & Passionate Automation & Controls Engineer with more than 10 years of experience in system design, software development, integration, commissioning and trouble shooting of Siemens, Mitsubishi and Rockwell control systems.

#### CORE COMPETENCIES

- Experience with various electrical controls and Systems.
- Low and medium voltage switchgear.
- Power panels and Motor Control Center(MCC).
- Field instruments, PLC's, DCS, HMI, SCADA and VFD's
- Control panel designing.
- Wiring diagram and schematics.
- Ability to identify and coordinate solution for multiple disciplines including pneumatic, Hydraulic, Electrical, Mechanical and logic programming.
- Field commissioning, upgrade & maintenance.
- Marine electronic and electrical equipments service experience.
- Demonstrated troubleshooting and problem solving skills and ability to work as standalone representative of the company.
- Proficiency in technical writing and comprehensive documentation.
- Excellent communication and customer management skills.

#### PROFICIENCY

- |   |   |
|---|---|
| • SIEMENS PLC – S7 200, 300, 400, ET 200S, Logo etc                               | • Rockwell PLC - Micro Logix 1200, 1400   |
| • SIEMENS HMI – OP, KTP, TP, MP Series  | • Rockwell HMI – Panel View, SCADA – Rs view  |
| • SIEMENS SOFT STARTER – Sirius up to 110 KW                                      | • EASA HMI- VT, IT Series   |
| • SIEMENS AC DRIVE – MM 420, 430, 440, G120                                       | • DELTA HMI – DOP, AE Series  |
| • SIEMENS SCADA – WinCC Explorer, WinCC Flexible, Protool                         | • ABB AC DRIVE – ACS 350, 550, 800  |
| • MITSUBISHI PLC – FX Series  | • YASKAWA AC DRIVE – F7, J7 Series  |
| • INDUSTRIAL PROTOCOLS – Profibus DP, Profinet, Ethernet TCP/IP, MPI, PPI, Modbus | • SOFTWARE – Step 7, Micro Win, Soft Comfort, Simatic Manager, S7 TIA Portal, Rs Logix, GX Developer, GT Design 3, Autocad, Eplan, Microsoft Office |

SIEMENS

ABB

DELTA

Rockwell  
Automation

ESN  
AUTOMATION  
Connect ideas. Shape solutions.

YASKAWA

## PROFESSIONAL EXPERIENCE

□ **Feb 2015 to Oct 2019** - **AVIZ Technologies LLC, Sharjah, UAE**

**Position** - **Field Engineer (Automation & Control)**

### Responsibilities :

- Installation and start-up of new/rebuilt equipment and upgrade kits, set-up and testing
- PLC & HMI Program software development and modification(Mitsubishi and Siemens)
- On-site repairs for machine breakdowns, I/O's testing.
- Control systems commissioning for filling & bottling machine, outer washer, decapper, RO plants, heater control and conveyor systems.
- Inspection and upgrades of older control systems as per customer requirement.
- VFD programming and motor control.
- Electrical design for modification/retrofitting.
- Maintenance and troubleshooting of automation systems.
- Checking customer input and scope of work for site work.
- Supervision on installation of field instruments, JBs and control panels.
- Supervision on cable routing, laying and termination between instruments and control panel.
- Documentation and minutes meeting preparation at site.
- Training for operators and maintenance technicians at site.
- Provide technical advice to the customer and recommended spare list.

□ **Feb 2013 to Nov 2014.** - **BB Electrologic Systems, Mumbai, India**

**Position** - **Field Service engineer (Enviro Div.)**

### Responsibilities :

- Site inspection and conduct study of logic, process for designing control systems.
- Bill of material and I/O List preparation as per site requirement and customer input.
- Commissioning of PLC based ESP, Bag Filter, Rapper Control Panels, rapper distribution panels etc for boilers and Kilns.
- Software programming and modification for PLC, HMI and SCADA of Siemens.
- Integration with customer DCS and third party system through automation protocols.
- Supervision on panels installation, cabling and termination.
- Maintenance and trouble shooting.
- Conduct training at end user site.
- As built drawing preparation after modification, documentation and MOM at site.
- Coordination with engineers for In house testing before FAT.

**June 2008 to Jan 2013 - Autodata, Mumbai, India**

**Position - Commissioning Engineer**

**Responsibilities :**

- Commissioning, Maintenance and trouble shooting of PLC based Automation and control systems for various industrial applications.
- Software programming for PLC, HMI and SCADA of Siemens and Rockwell automation at site.
- Control system modification and retrofitting at site.
- Responsible for inspection activities and drawing approval from customer.
- Preparation of Cable Schedule for field wiring, Site supervision for cabling.
- VFD, temperature controller, heater controller and other field controllers programming.
- PLC integration with other devices and software through industrial automation protocols.
- In-house Testing of Control Panels, PLC Program Simulation & SCADA.
- Participate in FAT (Factory Acceptance test)
- SAT performance (Site Acceptance test) for all systems and instruments.
- As built drawing and O&M manual preparation.
- Commissioning, Minutes Of Meeting, Documentation & Conducting Training for End customers.

**□ Jan 2007 to May 2008 - K.J. Electronics. Pvt.Ltd, Mumbai, India**

**Position - Service Engineer (Marine services)**

**Responsibilities :**

Installation, Commissioning, Repairs & Maintenance of various Marine Electronic Equipments like GPS, Echo sounder, Radars, Gyro Compass, Auto pilots, HF, VHF, GMDSS, Communication Systems (NAVID & Comm.) in Indian Navy, cost guard and Merchant Navy ships.

## **EDUCATIONAL QUALIFICATIONS**

- **M.Sc Electronics** from **Bharathidasan University**, Thirichirapalli, Tamil Nadu, India. Passed with First class in the year 2006.
- **B.Sc Electronics** from **Madurai Kamaraj University** Madurai , Tamil Nadu, India. passed with second class in the year 2003.
- **VHSE (MRRTV)** from **VHSE Board of Kerala, India** passed with first class in the year 2000.