

INDUSTRIAL PROCESS AUTOMATION CONTROL SYSTEMS AND INSTRUMENTATION

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Objective and Professional Summary:

- A result oriented professional aspiring towards Assignments in Industrial Process Automation Control Systems and Instrumentation with a reputed organization targeting senior-level assignments to enhance my technical skills, knowledge and achieve recognition with a reputed organization and want to be a part of an environment that promotes team effort and value based growth as well as career advancement while making a significant contribution to employer organization.
- Focused professional with over 14 years (10 years in Process Automation and 5.9 years in Instrumentation & Control) of experience Process Automation on Turn Key Basis, Automatic Material Managing, Sewage and Water Treatment Plant based Telemetry Systems
- willing to learn everyday and thereby enhance my abilities by being flexible in work environment. Can work with a person from any nationality.

Academic Information / Education Summary

- Bachelor of Engineering in Instrumentation and control engineering - Madurai Kamaraj University in 2003 from Sethu Institute of Technology, passed out 2003, Virudhunagar, Tamil Nadu
- Diploma in IT completed in NIIT Madurai - Tamilnadu.
- HSC (Bio-Maths) at S.B.O.A Matriculation & Higher Secondary School, passed out 1999, Madurai, Tamil Nadu.
- SSLC (Bio-Maths) at S.B.O.A Matriculation & Higher Secondary School, passed out 1997, Madurai, Tamil Nadu.

Employment Summary

Dates	Organization	Designation
Feb 5 2014 – Nov 2019	OTV ECI (Engineering Centre India) Veolia Water System and technologies Pvt Ltd -Chennai	Instrumentation Engineer
November 05 2012 – Sep 20 2013.	Quest Global Engineering Pvt Ltd - Bangalore	Lead Engineer
October 13 2011 – November 2nd 2012	CDMSmith - Chennai	Automation Engineer
November 2010 – Till July 2011	MELSS Automation Ltd - Chennai	Project Engineer
June 2007 - July 2010	ABB GISL - Bangalore	Project Engineer
June 2006 – June 2007	F.L. Smidth Pvt Limited Automation Division - Chennai	Lead Engineer – Control Systems
June 2003 – June 2006	Focaal Automation Pvt Ltd - Chennai	Systems and Project Engineer

Professional Development & Training / Certification

800XA DCS Training on T315. certified from ABB GISL.
Certification training from Rockwell Automation Products.
IAB (INTEGRATED ARCHITECTURE BUILDER) TRAINING IN ROCKWELL PRODUCTS
Hands on experience in drafting P&IDs using Aveva P&ID VPE Software SP3.11, 3.12 for Tender and Execution projects.
Hands on experience in drafting using AutoCadd 2016,AutoCadd 2018
Hands on experience in cable tray modelling knowledge on Aveva E-3d for cable tray routing
Hands on experience in cable tray modelling knowledge on Aveva PDMS V P12.0.12.6 for cable tray routing
Trained with hands on experience in using INTOOLS SPI Smart Plant Instrumentation Version 2007.6 (8.0)

Technical Skill Summary /Domain Experience

SCADA: Factory Talk View SE and ME 5.0,5.1, SE 6.1,RSView 32 ,Wonderware Intouch 10.0, 10.1, 10.5, Fanuc Fix32 7.0,ifix 3.5, 7.0, OPC communication , ECS Expert Control System.

PLC: Allen Bradley (Control Logix's, Compact Logix,Flex Logix SLC series, Micrologix Series1200 , 1500, PLC5 Series.)

PLC SOFTWARE PROGRAMMING: RSLOGIX 5000, RS LOGIX 500, RSLOGIX 5

DCS: ABB 800XA with PM864 AC800M Controllers and Control Builder Programming.

Programming Languages: Visual Basics 6.0.

Databases: MS ACCESS, MS EXCEL

Reporting Tool: Visual Basic 6.0 Data Reports,Crystal Reports , ODBC Connectivity

Industry Domain Exposure:

Energy & Power Management System and Load Shedding,Electrical Data Management System, Plant Applications ,
Factory Automation, Power & Substation Automation, Material handling, Cement Plant Process Automation,

Boiler Automation Applications, Wastewater and water treatment Plant Automation.

Technical Area of Interest ,Scope and Responsibility:

Detailed Engineering

Capable of Handling

- Preparing Instrument Data sheet, Instrument schedule, Instrument BOM and getting approval from client or consultant.
- Implementing Hook up Drawing for all Instruments, Tray route preparations
- Preparing Input / Output List, Alarm & Trip Schedule.
- Preparing plant control philosophy, System Architecture for PLC,- Developing system architecture's including network design for PLC/SCADA
- Evaluating Cable schedule, Electrical BOM.
- Cable Sizing & Reviewing for MCC/ PLC panel.
- Developing layout for overhead cable tray routing, cable trench, cable rack, buried cable routing & cable Tray support.
- Reviewing Electrical Panel GA & SLD drawings..
- Attending technical meetings with client or consultant.
- Reviewing documents and drawings provided by vendor to give technical clearance to project team.
- Interface engineering activities with various vendors.

Proposal Engineering:

Capable of Handling

- Preparation of Technical offer & estimates, which includes Scope of supply, terminal points & exclusions, Technical datasheets & Tender Drawings
- Technical information such as design criteria , write ups, catalogues etc.,
- SCADA,PLC,DCS –PROGRAMMING,DESIGN,TESTING,FAT,SAT
- Identifying Deviation of technical specifications
- Review of vendor offers and drawings
- Preparing enquiries to receive quotations specific to project needs, for estimation, if required.
- Identification and recording of the assumptions / exceptions / deviations made for the preparation of estimates.
- Liaison with client for their technical queries.
- Post Project Award contract study, preparation of revised estimates based on agreed list of assumptions / qualifications and estimated profit margin to the management.
- Prepare extra claims for additional scope of work during project execution & intimate to Project Department.

Basic and detail engineering of entire automation system incl. specification of HW and SW components

Development Programming, Testing of application software on Rockwell PLC, HMI and SCADA systems

Detail Design ,Engineering and commissioning of automation and control systems projects including System configuration for Distributed Control Systems/Programmable Logic Controllers.

Meeting Customer Compliance comments. Attending Kickoff Meeting and Review meetings with Clients / Customers.

Preparing Plant Control Philosophy and Functional Definition Specification Automation Engineering Documents.

Perform FAT and SAT, Training of customers

Acquired and Gained Knowledge in Project Management and Coordination Activities

Managing Official Technical Documents.

Preparation of Industrial Process Automation and Control System Documents - FDS, PLC IO list, Alarm List, Motor Load List, Instrument Index and Instrument Catalogues, Automation Control Systems and Instrumentation BOQ with Specifications.

Preparations of Instrument lists, Instrument Data sheets, Instrument Hookup Diagram,P & ID, System Config. For PLC, DCS.

Evaluating I/O's (input/output) and allocating w.r.t P & ID & instrument list.

Preparing logical representation (Block Interlocking Diagram - B I D) for DCS.

Preparations of P & ID, Instrument lists, close loops & open loops

Preparation of loop schematics

Preparation of Control & Instrument signal cabling philosophy.

Preparation of cable schedule & Interconnection.

Cable routing, Reviewing **3D** & Plant layout for Electrical Installations and Design in **Navisworks Freedom 2016**

Interested in doing Projects in Detailed Engineering .

Can Support for Bids and Proposals by providing technical inputs from tender documents.

Allocation of JB'S and cable routing

Clash Detection in **AVEVA 3D PDMS** and **E3D** software with piping and Cable Trench and Cable Tray with Cable Trench and Cable Tray Sizing and Routing

Cable Trench and Cable Tray Sizing and Routing
Tender Study and pointing out deviations from tender

Preparing Request for Quote (RFQ) and communicating with vendors for confirmation of technical specification and details.

Working and coordinating with Cross Functional Inter Departments.

After Sales Service & technical support

COMPUTER EXPERIENCE

Operating Systems: Windows 95/98/2000,2003,XP,7.

Database: MS Access 2000, 2003,MS Word,MS Power Point

Application Software: MS Office 2000,VB6.0,

Network Knowledge:Ethernet IP Communication in Computer Systems

Databases: MsAccess, MS OFFICE Packages 2003,2007.

Regards
K.Krithik.