

Adithya S.H

Sr. Automation Engineer

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Career Objective

With hands on experience and thorough expertise in the field of Automation Engineering, willing to be a part of an organization wherein innovation and latest technological advancements are embraced and one gets a scope to learn and grow along with the organization.

Career Summary

Focused Automation Engineer with over **9.8 year's diverse experience in R&D, Telemetry, BMS, De-watering, Instrumentation, Process & Production environment.** Having worked in various Automation sectors got extensive knowledge & confidence to work on different applications and Systems.

Academic Background

MASTER DEGREE

MTech in Electronics & Telecommunication, KSOU, India

BACHELOR DEGREE

BE in Electronics & Communication, VTU, India

PRE UNIVERSITY

PUC in PCMB, Karnataka State Pre - University, India

SECONDARY EDUCATION

SSLC in Karnataka State Secondary Education, India

Professional Experience

ACTION INTERNATIONAL SERVICES – Dubai, UAE

ACET Engineer - Nov 2016 to Apr 2020

STARTECH – C3 AUTOMATION – Dubai, UAE

Project Manager - Sep 2015 to Oct 2016

PERFECT TECHNOLOGIES & AUTOMATION – Bangalore, India

Senior Automation Engineer – Sep 2014 to Aug 2015

CECO ELECTRONICS – Bangalore, India

Application Engineer - Nov 2013 to Sep 2014

I-LOGICON CONTROL AUTOMATION – Bangalore, India

Project Engineer - Apr 2010 to Oct 2013

Technical Skills

PLC:

Allen Bradley - MicroLogix, SLC, Compact / Control Logix.

Inventia Mobicon - MT-151 LED -Telemetry Controller

Schneider RTU - SCADAPack 300 series.

LS (LG) - XGB series

SCADA:

Rockwell Automation – Factory Talk View Studio

Schneider – Clear SCADA

HMI:

Allen Bradley - Panel view Component / Plus

Schneider - Vijeo Designer

Weintek – Easy Builder Pro / Easy access

LS (LG) HMI: XP Builder

VFD:

Allen Bradley - Power Flex 40/70/525/753KW

Schneider - Altivar600 75/95/132/160KW.

LS (LG) VFD: IC5, IG5A

MMC:

Schneider - Motor Management Controller

LTMR08MFM, LTMR27MFM & LTMR100MFM

Communication Protocol:

Modbus RS485/232, Ethernet/IP, DeviceNet, DNP3

Programming Software:

Rockwell Automation – RSLogix 5/500/5000.

Inventia - MT Manager (MTM) – Telemetry software

Schneider - RTU Configurator & Isagraph

Designing Software:

AutoCAD, Eplan Electric P8

Others:

Tableau, MS-Excel, Word, Power Point, Paint & SQL

Responsibilities

- PLC / RTU / VFD / MMC Programming
- SCADA / HMI Development
- Research & Development
- Testing & Commissioning
- Telemetry Monitoring & Supervising
- Training & Reports
- Interaction with Clients for Project discussion

About Me

Date of Birth: 7th February 1987

Age: 33 Years

Gender: Male

Nationality: India

Languages: English, Hindi & Kannada

Interests: Exploration, Food, Music, Chess, Yoga.

Gulf Experience

Key Projects Executed:

Project: Expolink Metro 2020**Application: De-Watering system****Client: RTA (Dubai Government)****Period: Mar'17- Jan'20, Dubai**

- ✧ Objective of the work is to do the Dewatering of Metro construction site.
- ✧ My scope of work is to take care of complete Telemetry system, includes Programming, HMI development, Panel testing, commissioning at site & remote monitoring.
- ✧ Main features of Telemetry system consisting of control of Dewatering pumps, safety to the operators, protection to the pumping unit, wireless transmission of field data to the server includes Pump parameters, Flowmeter details, Pressure transmitter details, Piezometer & Diesel sensor readings.
- ✧ All the site information can be remotely monitored from the Head Office or from any part of the world.

Project: Dubai Canal**Application: Water treatment & Dewatering system****Client: BESIX****Period: Apr'16-Jun'16, Dubai**

- ✧ Objective of the work was to do the Dewatering of stagnant water from Dubai canal to Sea after the water treatment.
- ✧ My scope of work was to do Configuration, testing, development & commissioning of VFD panels (75KW,90KW,130KW & 165KW)
- ✧ Schneider VFD, RTU & HMI are used in the panel to control the Submersible pumps in the canal.
- ✧ Clear SCADA is used for the remote monitoring and control of the pumps.
- ✧ Magelis HMI used for local operation of the VFD and monitoring of Pump parameters.
- ✧ Total flow of water is measured through flow meter and is communicated through Modbus RS485.

Project: DUQM Sea port**Application: De-Watering system****Client: Boskalis****Period: Aug'17-Nov'17, Oman**

- ✧ Objective of the work was to do the Dewatering of Sea port area and make the site ready for excavation & construction.
- ✧ Telemetry pump control system is used for ground water control in Quay wall & Berth areas of sea port.
- ✧ More than 30 Telemetry units implemented in different parts of the sea port.
- ✧ Telemetry pump control system integrated with Piston pumps, Flow meters, Diesel level sensors, Piezometers & Pressure transmitters.
- ✧ All the data transmit to Head office server and logs in to SQL database and then it will be deployed in Tableau monitoring software.
- ✧ Auto alerts will come in case of any shutdown or trips occur.

India Experience

Key Projects Executed:

Project: Bangalore Metro**Application: Remote Monitoring System (RMS)****Client: BMRCL & Schindler****Period: Aug'13-Dec'13, Bangalore, India**

- ✧ Objective of the work was to develop & handover of Lift monitoring SCADA, Power distribution monitoring and domestic / firefighting water pump control system.
- ✧ My scope of work is to take care of PLC Programming for Pump control system, SCADA development for Lift alerts & status monitoring, Panel testing, commissioning at site
- ✧ RMS for 6 Metro stations (MGroad,Trinity,Ulsoor,Indiranagar,OMR & Byappanahalli)
- ✧ Programming was done for controlling domestic water pumps & Firefighting water pumps in the main Water control room. SCADA was developed for monitoring and controlling of the Lift, Pumps & Power distribution system with Alarms and trends.
- ✧ Established Modbus communication between Allen Bradley PLC and Schneider's Multi-Function Meter EM6400. Displayed SLD of the EB & DG power distribution, all the electrical parameters, status of the incoming & outgoing ACB's, trends and alarms in SCADA.

Project: Vacuum Drain System**Application: Pharmaceutical process****Client: Johnson & Johnson****Period: Feb'15, Baddi, Himachal Pradesh, India**

- ✧ Objective of the work was to do automatic vacuum drain control system for pharma chemical tanks.
- ✧ Carried out System engineering, Programming, testing & commissioning.
- ✧ Program was developed for Auto & Semi auto control of the Vacuum Drain System.
- ✧ HMI was developed for monitoring the system status, start/stop control and alarm indication.

Project: Toyota EMS**Application: Energy Management System****Client: Toyota Techno Park India Pvt.Ltd,****Period: Oct'14, Bangalore, India**

- ✧ Objective of the work was to do monitor & manage the utility energy consumption with DG Automation.
- ✧ Supported and guided the customer for PLC, Software and product selection.
- ✧ Auto control of the feeds & breakers was done in DG automation to optimize energy utilization & power distribution.
- ✧ HMI was developed for monitoring the overall system status, all electrical parameters, trends and alarms.

Project: Steel Plant conveyor system**Application: Sponge Iron conveyor system****Client: BMM****Period: Mar'13, Hospet, Karnataka, India**

- ✧ Objective of the work was to do the Auto conveyor system for sponge iron

Gulf Experience

Project: Ashghal Solar flow meter control
Application: Solar Flowmeter monitoring system
Client: ASHGHAL (Qatar Government)
Period: Nov'17-Mar'18, Doha, Qatar

- ✧ Objective of the work was to develop and supply of Solar control Flowmeter panel with Modbus communication between TBOX controller & Flowmeters.
- ✧ Designed & implemented a new system for Ashghal's requirement.
- ✧ From the solar panel system, flow data will transmit to Ashghal's master SCADA system.
- ✧ Implemented Asghal's recommended TBOX controller in the system for their integration.
- ✧ Main scope is to track flow of water in the discharge line from different parts of construction location in Doha by its government.

Project: Riyadh metro
Application: De-Watering system
Client: BACS
Period: May'17-July'17, Riyadh, KSA

- ✧ Objective of the work was to do the Dewatering of Metro construction site.
- ✧ My scope of work is to do Programming, testing & commissioning of Pump control system.
- ✧ Telemetry systems are implemented in Red, Blue lines and Egress shaft location to control & monitor the site status.
- ✧ Controller used in telemetry system is a standalone unit with GSM & GPRS features.
- ✧ If any trip occurs in the system, email will send to the concerned person automatically.

Project: Dubai Creek Harbor (DCH)
Application: De-Watering system
Client: Al Naboodha
Period: Feb'18- Apr'20, Dubai

- ✧ Objective of the work is to do the Dewatering of Creek construction site.
- ✧ My scope of work is to take care of complete Telemetry system, includes Programming, HMI development, Panel testing, commissioning at site & remote monitoring.
- ✧ Pump control Telemetry panel used in various locations of DCH site for the monitoring and protection of pumps
- ✧ All the site information can be remotely monitored from the Office and monitoring team will update to the site engineer on any trips or breakdown,

Telemetry Monitoring & Supervising
Period: Apr'18-Apr'20, Dubai

- ✧ Objective of the work is to Monitor & report the below mentioned assets
 - ✧ Pumps & field instruments Telemetry System -Tableau
 - ✧ Fuel Telemetry System -Tableau
 - ✧ Generators Telemetry System - Roamworks
 - ✧ ACTION Vehicle Telemetry System - Roamworks
 - ✧ Water quality Telemetry System - Ubidots
- Through Telemetry Monitoring overall system efficiency improved and number of breakdowns reduced.

India Experience

- ✧ Carried out System engineering, PLC Programming, HMI/SCADA development, testing & commissioning.
- ✧ Program was developed for auto controlling of the dome valve and convey valve based on dome seal pressure, vessel pressure & conveying air pressure status.
- ✧ Auto changeover of next conveyor system was done.
- ✧ SCADA screens were developed for monitoring the Overall system status, numeric entry for various timers, system start/stop control and alarm indication.

Project: Mico BOSCH DG Automation
Application: DG Automation, 3 x 2260 KVA (BMS)
Client: Mico Bosch
Period: Sept'13-Oct'13, Bangalore, India

- ✧ Objective of the work was to provide DG Automation with SCADA monitoring system.
- ✧ My scope of work was to Interaction with the client, Project planning, Programming, SCADA development, Panel testing, commissioning at site and handover.
- ✧ PLC programming was done for Auto control of the all DG operations and distribution of power to the utilities.
- ✧ Established Modbus Communication between PLC, Multi-Function Meter (MFM), Generator Control Unit (GCU) and Diesel Control Unit (DCU).
- ✧ SCADA was developed for monitoring the entire operation, all the Electrical parameters, Alarms and Trends.

Project: Distillery plant.
Application: Turbine control system
Client: Bannari Amman Distillery Group
Period: Feb'12, Erode, TN, India

- ✧ Objective of the work was to control the Steam turbine for Utility power generation
- ✧ Carried out System engineering, Programming, HMI development, testing & commissioning.
- ✧ Program was developed for controlling the valves of steam turbine, main and vent output valve was controlled through PID.
- ✧ Panel view plus 1000 HMI was used for HMI screens and developed for monitoring the entire process and option given for assigning some numerical inputs, Alarm history and trends to show various analogue parameters.
- ✧ Incremental encoder was used to count the number of pulse for RPM.

Project: Hydropower station (3MW).
Application: SCADA monitoring system
Client : Deogad
Period : Jul'10 , Ratnagiri, Maharastra, India

- ✧ SCADA screens was developed for monitoring and controlling the Hydropower plant. Various screens developed to show process, real time parameter values, trends, alarm history and few controlling option.
- ✧ For the PLC programming coordinated with the senior programmer for the assistance and support.
- ✧ Electrical control panel drawing was done using AutoCAD & Eplan for the following panels - Synchronizing, LTAC, LAVT, NGT, NGR, Transformer breaker control panels.