

G. PAVANKUMAR

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CAREER OBJECTIVE:

Experienced Automation Engineer with a demonstrated history of working in the industrial automation. Skilled in Process / Machine / PLC / SCADA / DCS / HMI / BATCH /AUTOCAD / OPC.

TECHNICAL SKILLS:

- **PLC** (Programmable Logic Controllers) - Programming languages such as **LD** (Ladder Diagram), **FBD** (Functional Block Diagram), **STL** (Statement list) & **SCL** (Structured Control Language).
- **Practical exposure in major brands of PLC's as**
 - **Siemens –S71500, S7-1200, S7-300, S7-400 and RTU's- ET200S, ET200SP.**
 - **GE-Fanuc -Versa Max, Versa Max Nano/Micro.**
 - **Schneider Electric TWIDO-TWDLCA16DRF, M580, M340 and M200.**
 - **AB (Allen Bradley) – MicroLogix-1000, SLC 500 and RS Logix 5000.**
- **Practical exposure in major brands software's as**
 - Siemens – Step-7 (Simatic manager), TIA PORTAL V13, V14 and V15.1, WINCC SCADA
 - GE-Fanuc–Proficy Machine Edition, Cimplicity SCADA, Ifix SCADA, Proficy processsystem.
 - Schneider Electric–Wonderware Intouch & Citect SCADA, Unity pro, vijeo designer.
 - Inductive Automation– Ignition SCADA.
- Performing Single line diagrams, control circuits, power circuit's diagrams, PID drawings, GA drawings using **AUTOCAD (V-2018)** and **EPLAN (V2.7)** software's based on client requirements.
- **SCADA** (Supervisory Control & Data Acquisition) – Screen designing, PLC interface, Data Logging, Data historian, Report Generations, C & VB Script, Trends, Alarms, Faceplates and Layers with **Cimplicity**, **InTouch**, **WinCC** and **iFIX** software's.
- **VFD** (Variable Frequency Drive) – Commissioning and Troubleshooting with **Siemens G120 parameterization through starter 4.4.1.**
- **DCS** (Distributed control system) – Process controlling using **Siemens PCS-7, Honeywell HC 900 and C300 Control Systems.**
- **Pneumatics & Field Instrumentation, Installation, Programming and Calibration of Field Instruments like Flow, Pressure, Level, Temperature Transmitters etc.**

PROFFESIONAL EXPERIENCE:

Siemens Technology and Services Pvt Ltd, Bangalore

Designation: **Software Engineer** (July 2021 to Till Date)

- Testing Totally Integrated Automation (TIA) Software V17, V18 developed features:
 1. PLC related Hardware related tests
 2. Testing SCADA and HMI Features
- Communicating Process Instruments, Low Voltage Switch Gears, Energy Meters with Various Protocols

Such as EGD, Profinet, Profibus, Modbus and configuring Remote stations ET200SP/PA.

- Interfacing of Siemens Switch Gear Equipment's like Energy meters(PAC-4300,3200), Soft starters of motor controls, MPCB's, MCCB's through Modbus, TCP-IP, Foundation Field Bus, Industrial Ethernet protocols with Siemens Controllers like S7200,300,400,1500.
- Application development, which include analysis of the requirement, providing solution specification, design and development as per the client requirement.
- Responsible for design, development, and integration of the component. Developing and testing all the scenarios with Practical approach Bug fixing, raising the fault issues, Requirement documentation, preparing Unit Test Cases. Providing new release version to client.
- Application Maintenance, Incident Management, Problem Management and Knowledge Management. Providing quick response to client based on the incident priority.

Quest Global Ltd, Hyderabad

Designation: **Controls Engineer** (December 2019 to July 2021)

- Develop detailed models and Control Logic Implementation of various Gas Turbine, Steam Turbine and Combined Cycle Power plants and Oil Rigs using plant P&ID's, Control Narratives and equipment data for Oil, Gas and Power plant industries.
- Developing, Upgrading and Simulating HMI screens for Crude Oil rigs, Gas stations environments as per P&ID's and customer requirements with Cimplicity and WINCC Softwares.
- Configuring, Programming and Performing detailed quality tests on RTU's as per the Checklists.
- Interfacing RTU's with Control system hardware with EGD, Modbus and Profibus configurations with the third party Controller's data.
- Design, implement and test control functions, interlocks, sequences, operator interface and other control components on MarkVie Controls System.
- Prepare simulations, test scenarios, test documentation, and participate in customer Factory Acceptance Tests and SIMATIC PCS7 programming, commissioning, trouble shooting, DCS commissioning and SIL controllers programming.
- Participating in Remote SAT and FAT with customers and taking care of the modifications as per punch lists.
- Fetching the Data to cloud to create Dashboards for monitoring and controlling from Thingworx cloud using KEPServerEx OPC.
- Mentored new coworkers in hardware-in-the-loop simulation, Preparation of Function Device Specifications and Control Design Specifications.
- Interfacing of Siemens Switch Gear Equipment's like Energy meters(PAC-4300,3200), Soft starters of motor controls, MPCB's, MCCB's through Modbus, TCP-IP, Foundation Field Bus, Industrial Ethernet protocols with Siemens Controllers like S7200,300,400,1500 and Redundant GE controllers like Mark-v, Mark-VI, Mark-VI e safety controllers for fetching turbine data.

DesignTech Systems Ltd, Hyderabad

Designation: **Engineer Technical Services** (May 2017 to November 2019)

- Programming in Siemens (S71500, S7400, S7-1200, S7-300) and GE-Fanuc (Series 90-30, 90-70 & Versamax) controllers, configuring the additional modules and linking with IOT platform and SIMATIC apps (S7-app, HMI suite)
- Developing SCADA & HMI screen designing and interfacing with PLC'S using In Touch (Wonder Ware) & WINCC, Performs data historian backup, linking with data base connectivity and lookuptables.
- Installation and Commissioning of Siemens & IFM Process Instruments with GE-Fanuc, Siemens PLC's and DCS using Profinet, modbus, HART, Profibus DP, Profibus PA, IOT & I/O linkmodules.
- Responsible of program design, developing system and commissioning of PLC, Conducting fault diagnosing, error checking and trouble shooting of PLC's.
- Good knowledge on preparation and understanding of data sheets, instrument drawings, I/O wiring Diagrams, P&ID's calculations and specifications.
- Control Panel Wiring and positioning with the help of AutoCAD & EPLAN Layout Electrical Drawings.
- Installing & Commissioning of Process Instruments to marshalling cabinets with PLC's and Implementation of P&ID, Selection & Sizing of various Instruments, control valve

PROJECTS:

YEOCHUNN NCC CO LTD, south korea

- 1) Implementation of Control system implementation for Gas Turbine controls
- 2) Interfacing of siemens Process Instruments and electrical equipment's such as MCCB, MPCB, Circuit Breakers with GE control system
- 3) Implementation of OPC with GE control system with third party vendor equipment's
- 4) Need to support the SWAT with customer

Timisoara Bucharest, Gas Turbine

- 1) Implementation of Mark-VIe redundant control logic for generation of MW.
- 2) Cross verifying the loop checks, interlocks and screens testing.
- 3) Implementation of OPC communication between third party SCADA systems
- 4) Implementation of SIEMENS wincc SCADA system

LIU STEEL Gas Turbine, Gas & Liquid

- 1) Developed Mark VIe redundant Control software upgrading and modification for both Gas and Liquid Fuel.
- 2) Review of control philosophy, P&I diagram, instruments list, flow chart.
- 3) Review and report all device discrepancies between P&IDs, signal lists and other relevant inputs

Rathdrum Power Power plant, Gas Turbine

- 1) Implementation of DLN 2.6 for 7F frames of GE Turbine.
- 2) Implementation of mark-VIe Control system for redundancy controlling
- 3) Testing of Gas Turbine sequence of operation, modifying models as per site requirements.
- 4) Running the simulation for proper check of DLN working

TVA Paradise Power, Gas Turbine

- 1) Developed Mark VIe redundant Control software upgrading and modification.
- 2) Review of control philosophy, P&I diagram, instruments list, flow chart.
- 3) Review and report all device discrepancies between P&IDs, signal lists and other relevant inputs before software implementation, Data link configuration, Cimplicity screen configuration and testing.
- 4) Write, Test & develop requirements for application code and failure mode driven validation methodologies
- 5) Provide Start Up, Remote Commissioning support and work with experts on issue resolution

EDUCATIONAL QUALIFICATIONS:

- **B. Tech (E.I.E)** from **Velagapudi Ramakrishna Siddhartha Institute of Engineering and Technology**, Vijayawada, J.N.T.U.K with **9.47 CGPA** in 2017.
- **Diploma (SDEIE)** from **Government Institute of Electronics**, Secunderabad. (State Board of Technical Education, AP) with **80.17%** in 2014.
- **SSC** from **Vivekananda High School**, Gummadidala, Hyderabad S.S.C Board with **91%** in 2010.

PERSONAL PROFILE:

Date of Birth	:	27/05/1994
Address	:	HNO.4-115/, Gummudi Street, Kothakota, Vishakapatnam-531116
Languages Known	:	English, Telugu and Hindi
Hobbies	:	Playing volley ball

DECLARATION:

I hereby agree for my personal data, included in my job application, to be processed in line with the needs of recruitment, in accordance with the Law on Personal Data Protection of 29th August 1997 (Law Gazette from 2002, No.101, heading 926, as amended).

Date:

Place: HYDERABAD

G.Pavankumar

