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SUMMARY OF SKILLS:

Energetic, Productive, highly skilled **Manager - Projects** in the **Industrial Automation** seeking a career advancement in dynamic, high growth organization that welcomes innovative ideas initiative, dedication & experience, demanding excellence in consistently meeting business objectives exceptional ability to work in a challenging Environment, offering over 20 years **(Including 9 years of Overseas)** of successful experience in executing the jobs.

PROFESSIONAL EXPERIENCE:

- | | | |
|--------------------|---|--|
| Company | : | Schneider Electric Systems India Private Ltd
(Formerly Known as Invensys India Private Limited), Chennai. |
| Designation | : | Manager - Projects. |
| Duration | : | Feb-2011 to Till. |
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| Company | : | Honeywell Automation India Ltd, Chennai. |
| Designation | : | Senior Engineer - Systems. |
| Duration | : | Mar-2008 to Feb-2011. |
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| Company | : | Honeywell Automation India Ltd, Chennai. |
| Designation | : | Project Engineer - Systems. |
| Duration | : | Oct-2006 to Feb-2008. |
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| Company | : | Bharath Heavy Electricals Ltd, Bangalore. |
| Designation | : | Project Engineer. |
| Duration | : | Mar-2005 to Oct-2006. |
| Reason For leaving | : | For a better career opportunity. |
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| Company | : | Electrotech Controls, Sonebhadra Dist., Uttar Pradesh. |
| Designation | : | Project Coordination Engineer. |
| Duration | : | Mar-2004 to Feb-2005. |
| Reason for leaving | : | For a better career opportunity. |
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| Company | : | Mega maintenance Services, Bangalore. |
| Designation | : | Maintenance & Commissioning Engineer. |
| Duration | : | Jul-2001 to Mar-2004. |
| Reason for leaving | : | For a better Career opportunity. |
| | | |
| Company | : | ELPRO Energy Dimensions Pvt Ltd, Bangalore. |
| Designation | : | R&D Engineer. |
| Duration | : | Feb-2001 to Jul-2001. |
| Reason for leaving | : | For a better career opportunity. |

Training & Technical Skills:

- ❖ Six Sigma - Attended six sigma training & Green belt holder.
- ❖ Kaizen Project – For Cost minimization & Quality of work.
- ❖ Exposure to Configuration, Installation & Commissioning of Various DCS systems of Invensys – Foxboro IA Series, safety system – Triconex, Wonderware Intouch, Honeywell - Experion system, BHEL – Max DNA and other PLCs like GE-Fanuc, Siemens and the Field Instruments.
- ❖ VB – Script used for the HMI Web Display (Honeywell Experion System) building for the Graphics development, Alert messages to Operators through Pop up windows, Calling the reports based on selection, Web based animation selection for dynamic linking. And used for report generation (Shift/Daily/Monthly/Weekly) by raising query to collect the data collected in the Excel format to prepare customized report formats with the help of Main & Sub call functions.
- ❖ Having knowledge in SQL Database & handled for analyzing the Event captured in Infusion DB Logger. And configuration of sharing the Infusion DB log SQL Table to Honeywell DYNAMO system for centralized Alarm Handling system. Also having the knowledge on Backup, Synchronizing & analyzing the Database for the trouble shooting.
- ❖ Currently working with R&D team - EcoStruxure Plant Data Expert using Aveva Edge 2020. As a part of Industry 4.0, It can help enterprises process, aggregate, contextualize and analyses data in real-time and link such insight to meaningful KPIs and outcomes. And this – when leveraged effectively – can translate into higher revenue, lower operational costs, increased production yield and throughput, reduction in unplanned downtime, extension of asset life, improved product quality.

1) Schneider-Electric Systems India Private Limited

(Formerly Known as Invensys India Private Limited)

Working with this organization from Feb 2011. The major responsibility is to provide technical / Project management support for the Engineering team on detailed Engineering and preparation of quality deliverables on time. Also maintain good relationship among the customers and Support the Project management by resolving the issues.

Job Profile:

- Having experience on various I/A System Engineering,
- System Engineering - Domain Controller with security enhancement.
- Global policy deployment as per cyber security policies.
- Basic Engineering, Functional design specifications, detailed engineering of the entire DCS and associated Panels.
- Hardware ordering for DCS Items.
- System definition V3.X and commit file preparation.
- Creation of software standards (Typical) for the project.
- Fox Draw / Fox View Configuration.
- Foxboro EVO, IEE (Infusion) FCS, IACC & ICC Configuration tools.
- FDSI Configurator version 1.3, FDSI TSAA Driver V2.3, MODBUS Driver 2.2.4.
- Hart Device Type Manager V1.4 Configuration, DTM File installation for hook-up of field devices.
- 3rd party interfacing communication with Triconex for ESD system, other 3rd party communication like CEMS, TGS, MCM, CCS, PSA, Analysers & IPCS system.
- Sequence function charts (SFC) V2.1 Programming.
- Configuration of Historian, Trends, Report packages and Project specific Batch reports
- System Installation, Staging & Testing of the DCS System.
- AIM*AT V3.X suite configuration
- Functionality tests like Hardwired & Soft SOE, Time synchronization, GIU, Firewall

- connectivity, OPC Communication, Multiple domain connectivity, Wireless between RIO & Local control system.
- Usage of SQL database for verification of Event capture & Transfer the SQL Alarm DB to third party system. (Establish the DB logging to Honeywell DYNAMO system from SE Infusion system).
- Engineering documents such as System architecture configuration, Network drawing, System Interconnection drawing, System Cabinet, Instrument loop drawing, HMI PAS, IC PAS, Communication PAS for DCS, As Shipped Documentation and As - Built Documentation.
- Reviewing P& ID's, cable schedules
- Kick off meetings with Customer, providing a final and completely reconciled Controls scope of supply. Bill of material.
- Engineering, Internal Testing, FAT and SAT Site closeout.

Site Activities:

- Supervision of Erection and power-up of Cabinets and Consoles.
- Involve in Daily Accountability Meetings for sharing the progress and escalating the issues to management in advance to forecast the scenario & efficiently use the manpower & saving project hour.
- Site acceptance test & Start-up and commissioning.
- Checking / modification of application logics during commissioning.
- Preparation of Method Statement.
- Hardware / software site modification, co-ordination with EPC/End User/Sub-vendor.
- Greenfield and Brownfield Tie-in Activities.

Projects (on going & Handled):

- 1) **Project : Kemira Smart Dosing Project (IIOT using Schneider EcoStruxure Cloud)**
 Location : Finland
 Role : EcoStruxure Plant Data Expert – Application Development.
 Control System : EcoStruxure Plant Data Expert 6.1RC2 with AVEVA Edge.

- This Project is mainly to develop the new edge logic & modification in the Existing Logics to meet the requirement of the Kemira industrialization option 1 & 2 phases.
- The Kemira Edge application is using:
 - Standard VBScript embedded scripting in the AVEVA Edge
 - Built-in functions e.g \$TagsDBBeginEdit(), \$TagsDBSetTagProperty() to interact with the Aveva edge local database.
 - Wide variety of OT (Modbus) & IT (SQL, JSON parsing) drivers enabling the interaction to the automation and IT world.

There are 2 independent parts in the VBScript application design:

1. Cloud interface: its main purpose is to check for any logic parameters update which are hosted on the Azure SQL database. In case of update the application will fetch the data and copy it to a local SQL database and then raise a flag to:
 2. Edge control: its main function is to control the pump based on the parameters stored in the local database.
 The application is based on procedures that are called by the scheduler or other procedures.
- 2) **KNPC – Clean Fuels Project**
 End User: Kuwait National Petroleum Company

Customer: JGSK (JGC, GSEC & SKEC)
EPC: JGSK – joint venture
PMC: WOOD Group

- Managing the Ongoing Site Commissioning Activities at KNPC, MAA Refinery.
- Tie-in of new systems with the Existing System Network as a part of Revamp Project.
- Mirroring of Existing RMP Control room at CFP CCR Control room. This task Involves with 51 workstations (of 7 Workgroups) & Aux consoles....
- Successful completion of FAT for the DCS Mirroring scope for the Existing RMP CCR at **Schneider-Electric Ltd, Incheon, South Korea.**
- Successful completion of SAT (Tie-in) for the Unit -25, HIPPS, Unit-62 of RMP area & Unit 31 of GPCCR at site.
- Extended support for the SAT (Tie-in) of Unit 26, HIPPS of RMP area Unit-29,30,32,33 of GPCCR.
- A part of this project the existing Root switch (N3 Series) shall be replaced with S4 Chassis root switch also 57 numbers of workstations are included to mirror the functionality of the existing workstations in 07 Workstation Groups.
- The Workstation cabinets, Network cabinets & Consoles are newly fabricated to locate all the Hardware as per the existing Philosophy.
- NetSight Application was installed to monitor the network topology & Switch status of the Mesh Network.
- SCAS (Switch configuration Application Software) Version 3.6 was used for the configuration of switches as per the system architecture.
- I3 Series (Extreme Network) Switches of Quantity 34 numbers are considered for the Level 3 layers.
- All the HMI Graphics, Environments, Historian, Report package and Annunciator Key board configuration are verified for the site setup.
- Infusion DB logger, Alarm Management system & Report generation.
- The replacement of Existing Root switch (N3 Series) replacement with New SSA (S4 Series) in online without any disturbance to the network in online.
- Also, the Revamp activity for the different units 05, 25, 26, 29, 30, 31, 32, 33, 40, 43, 44,58,61,62,80 of RCR, RMP & UCR area. There is an additional of IOs, Engineering Workstations, Control Processors are considered based upon the project requirement.

3) Clean Fuel Project, Thai Oil Public Company Limited
End User: Thai Oil Public Company
Customer: PSS Netherlands B.V. (JV Petrofac, Saipem, Samsung)

- PSS awarded the ICSS package to Schneider Electric systems for this Project.
- The Package-I covers the IPS & FGS 2 is involving the Tie-in & Integration with the Existing / Running system.
- Started review of the Work scope, BOM, KMOM, Discussion with Sales team on the Technical queries.
- Preparation of BOM for the Early works activity & documentation. Discussion to collect the site backup & plan for Site visit to do survey & SRR.

4) **Group III Base Oil Production Facilities project.**

End User: TAKREER RUWAIS REFINERY, Abu Dhabi.
Customer: Hyundai Engineering Company, Seoul.
PMC : Technip.

- Successful completion of FAT for the Base Oil Project of Revamp Area Tie in & New area at **Invensys Process Systems(S) Pte Ltd, Singapore.**
- Currently involved in commissioning activities & SAT (Site Acceptance Test) at the Group III base Oil Project, Ruwais, Abu Dhabi.

a) Base Oil Project – Brown Field (Tie-in for MCR & SIS010 Area):

- Prepared the Tie-in Dossier & Method of statement based up on the site study reports.
- Creation of new system monitor, updation of System Definition (SYSDEF) file.
- Site wide re-committal for addition of stations (Performed at Site)
- History point configuration for additional hardwired I/Os (Performed at Site)
- Annunciator Key board configuration for additional signals (Performed at Site)
- RTDB point Configuration (Performed at Site)
- Addition of IO signals associated with the Existing "Critical loops", New IO signals & Removal of IO signals in the Hydrocracker (Unit 103) & Acid Gas Removal (Unit 105).
- The Tie-in for the addition of IO signals for U103 & U105 of new Compressor IO Signals.
- Hookup the installed system with the existing Control Processor to link the added signals with proper procedure & method of statements.
- The Total IO Quantity is,
New IO Signals - 567 nos & Existing system – 55 nos.

b) Base Oil Project – Green Field:

1) Involved & completed the Site Installation Test (SIT) for the Invensys system supplied for the project and resolved the critical punches with the available features in the system.

2) Currently supporting the Team of Engineers for the execution of the Function checks for the Process units.

3) TAKREER has decided to extend its current RTDB at NCR to include data from the Group III Base Oil Production Facilities project and visualize the data using common client tools available at TAKREER mainly Process Book and OSI Datalink Excel Add-In. Almost 85 PI Process Book Graphics as per TAKREER Process team requirement, 35 excel reports using PI datalink and create 300 performance equations used to historize importance calculation in the PI system based on Tags received from BOU thru FOXAPI Gateway Machine.

4) IO Quantity:

Hardware IOs: 4217 (DCS) & Soft IOs (Third party): 16000 nos (Appx).

5) Zubair Oil Field Development Project, Iraq

- Support for the Pre- FEED activities and Preparation of Functional Design Specification (FDS) documents to meet the project requirement.
- Preparation of the detailed Engineering document for the Integrated Control Software – ICSS Document.

6) KOC Pipeline Project (EF/173) PORTION 2 (KOC ASSET) – BS180

End User: Kuwait Oil Company, K.S.C.

Customer: Hyundai Engineering Company, Seoul.

- Involved in FAT Support at Invensys Process Systems(S) Pte Ltd, Singapore for database Modification, Supervise the Graphics updation & closure of Punches.
- Review the Serial Communication database & Graphics for the third-party system through Serial communication for DPDU Compressor Train 2 & 3, FG compressor train 2, 3, 4 packages, Analyzers, CMS 1, 2, 3 and FAT with Customer.

7) Jubail Export Refinery Project, SATORP (Fluid Catalytic cracking – U061)

End User: SATORP (Saudi Aramco/Total), Saudi Arabia.

Customer: Technip

- Development of Detailed Design Specification for the Complex loop logics
- Quality checking for the Graphics and Cause & Effects diagrams before submitting to customer.
- Supervising & review of IO assignment, Termination database & Cabinet designing,

wiring.

2) Honeywell Automation India Private Limited

The major responsibility is preparation of Engineering Deliverables, Factory Acceptance Test (FAT) & Site Installation, Commissioning and Site Acceptance Test (SAT) as per the schedule.

Job Profile:

- Participating Kick of Meeting with the Sales Team & Customer.
- Preparation of Project Schedule, Project Execution Plan, Finalizing the Vendors, Resolving the Query list, Collection of Engineering Inputs from the customer & preparation of Engineering documents of System Architecture Drawing, Design Specifications like Hardware Design Manual (HDM), Engineering Design Manual (EDM), Software Design Manual (SDM)
- Selection of Field Instruments and Installation, Commissioning.
- Submission & approval of the Documents from customer for the further Integration activities at Factory.
- Selection & Ordering of DCS& Brought out items like Relays, Barriers/Isolators as per project requirement.
- Hardware FAT completion & successful dispatch of the system to site.

Projects Handled:

- 1) **225 MW Gas based combined cycle power plant**
End User: Sravanthi Infratech Private Limited, Kashipur.
Customer: Sravanthi Infratech
- 2) **DCS for 20 MW Cogen Plant**
End User: Bannari Amman Sugars Limited, Nanjangud, Mysore, Karnataka.
Customer: Avant Garde Engineers & Consultancy
- 3) **DCS for 17.5 MW Cogen system**
End User: Jamkhandi Sugars Limited, Jamkhandi, North Karnataka.
Customer: Avant Garde Engineers & Consultancy
- 4) **DCS for 21 MW power plant & 3500 TCD Sugar Refinery**
End User: Dhanalakshmi Sreenivasan Sugars Limited, Perambalur, Tamilnadu.
Customer: Avant Garde Engineers & Consultancy
- 5) **DCS for 23 MW power plant & 3500 TCD Sugar Refinery**
End User: Silk Road Sugars Limited, (EID Parry Group), Kakinada, Andhra Pradesh
Customer: Profitech Engineers & Consultancy
- 6) **DCS for 2MW spent wash based Incineration Plant**
End User: EID Parry Ltd, Sivaganga, TamilNadu
Customer: Avant Garde Engineers & Consultancy
- 7) **DCS for Sugar Plant Automation**
End User: EID Parry Ltd, Pugalur, TamilNadu
Customer: Avant Garde Engineers & Consultancy
- 8) **DCS for Sugar Plant Automation**
End User: EID Parry Ltd, Pettavaithalai, TamilNadu
Customer: Avant Garde Engineers & Consultancy
- 9) **DCS for BOILER 1, 2 & 3 system (Each of capacity 200 TPH) Revamp Project.**
End User: NALCO, Damanjodi, Orissa Customer: NALCO, Damanjodi, Orissa

3) Bharath Heavy Electricals Limited, EDN, Bangalore

Worked as a Project Engineer in External Services department and Involved in the Project execution of 3 X 500 MW – Rihand Super Thermal Power Plant, Rihand, Sonebhadra District.

Job Profile:

- Erection & Commissioning of Field Instruments in the following areas,
 - 1) Boiler Area & Feed Water Paths
 - 2) Flue Gas Paths.
 - 3) Mill Area.
 - 4) Turbine Area.
- Network Interconnection among different system & HMI.
- Signal conditioning for DCS Panels with HMS (Heart Management System).
- Interconnection of Network panel and MMI Panel (Using CISCO Switches).
- Involvement in Power plant operation during Pre- Trial Run and Trial Run.
- Studying P&I Diagrams, SFD & Cable Schedule to provide trouble free performance.
- Supervising of Commissioning of UPS (2X105KVA), GPS, CCTV System, PADO System, Analyzers for SWAS, SOX/NOX, CO, DUST, OXYGEN and OPACITY with MODBUS Communication.

4) Electrotech Control, Sonebhadra Dist., Uttar Pradesh

Worked as a Project Co-Ordination Electrotech Controls (Supply, Erection & Commission of field Instruments and MAX-DNA DCS System). Electrotech Controls was a sub-contractor for Instrumentation Ltd, Kota for UPEB, Obra project.

5) Mega Maintenance Services, Bangalore

Worked as a Maintenance & Commissioning Engineer for C.N.C Machines with different types of PLCs (Siemens, Fanuc and Allen Broadly), Stabilizers and UPS in AIRCRAFT, AEROSPACE and FOUNDRY & FORGE Divisions of HINDUSTAN AERONAUTICS LIMITED (H.A.L), Bangalore

Types of controls Used:

- Fanuc 6M, 11M, 15TF, O-T Series., Siemens 5, 840D, 840C, Allen Bradley & Acramatic A-940.

Educational Qualifications:

NAME OF THE EXAM	NAME OF THE INSTITUTION	UNIVERSITY	YEAR OF PASSING & RESULT
B.E (E.E.E)	Erode Sengunthar Engineering College, Thudupathi.	Bharathiar university, Coimbatore	May – 2000 First Class with Distinction (78%)
HSC	Sri Gopal Naidu Higher Secondary School, Coimbatore.	State Board	Apr-1996 (84%)

Personal Information

Date of Birth : 01.06.1979
Nationality : Indian.
Gender : Male.
Marital Status : Married.
Passport No : Z6240390, Date of Expiry → 13th Sep 2031.
Language Known : English, Tamil, Hindi, Telugu, Kannada & Malayalam.
FIN : G5235264P (from March 2012 to Feb 2013 at Singapore), U.A.E UID
Number 40317072 (From March 2014 to May 2015)

Place:

Date:

(R. MAKESHBABU)