

N.ARVIND MENON

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Seeking assignments in Instrumentation & Control, Automation Engineering and Project Management with a growth oriented organization

Professional Experience

Project Engineering

Instrumentation

Industrial Automation & Communication

DCS/SIS

Engineering & Commissioning

Job Management

- Dynamic professional with over 8+ years of experience in Project Management, Engineering and Commissioning in Industrial Automation.
- Skilled in supervising projects with respect to cost, resource deployment, and quality compliance; evaluating project progress & taking adequate corrective actions.
- Gained comprehensive knowledge of SIEMENS PCS7, WinCC, Step7 Safety, CENTUM VP / CS3000 (Yokogawa DCS), Prosafe RS (Yokogawa ESD system), DCS/SIS HMI Design & Development.
- Expertise in coordinating the entire development activities including requirement analysis, planning, finalizing specifications, designing and prototype development to meet Client requirements & translating the design model using various tools.
- Expertise in conducting Factory Acceptance Test (FAT) and Site Acceptance Test (SAT) with Clients.
- Insightful knowledge of Industrial Protocols Profibus, Modbus RS-485/232, Ethernet TCP/IP, etc.
- An impressive communicator with honed interpersonal, team building, negotiation, presentation, convincing and analytical skills.

Technical Skills

- Industrial Automation: Distributed Control Systems
Siemens PCS7, Step7 Safety, WinCC, Yokogawa CENTUMVP/CS3000
ESD (Safety PLC) : Prosafe RS
- Design Level: Complete Hardware & Software Engg (Requirement study, P&ID study, System configuration / Architecture Design, Control Room layout generation, Grounding schemes, Detailed Networking, IO list generation, Cabinet and Console engineering, Cable scheduling, Loop drawing generation, Control philosophy study, logic development, site survey, process study, input collection, FDS & HDS Preparation, Graphics generation and Debugging, interlock generation and debugging, Final as-built-documentation.
- Third Party Communication: Sub-system (as slave) Communication via Profibus & Modbus for signal from DCS (as Master/Slave).

Executive Engineering & Commissioning: SEPTEMBER 2011- Till date

Instrumentation and Automation

- Complete Detailed Engineering of DCS/SIS systems, based on functional specifications & project requirements.
- Site survey, Review of P&IDs and generation of IO/list, System Architecture, Control room drawings, Grounding schemes, detailed networking schemes, Cabinet and Console engineering, Cable scheduling, Loop drawing generation.
- Detailed networking for small and large systems having single/multiple domains. Layer2/Layer3 switches, OFC Connectivity
- Third party communication establishment – Modbus
- PRM (Plant Resource Manager) Setup
- Hardware and Software troubleshooting of DCS/SIS
- Accountable for preparation of functional logics of any complexity, from P&ID's, control narrative or process write-up for the relative loops.
- Development of Interlock schemes from Control Narrative, Process flow diagrams and P&ID's for DCS. Generation and debugging of process flow drawings (Graphics), System staging for FAT, Conducting Pre FAT, Factory Acceptance Tests and

SAT/Site Acceptance Test with end-users/consultants. Internal Testing and Commissioning by establishing communication with third party systems and devices using Modbus communication or Profibus communication.

- ⇒ Comprehending Relay logic and preparing Safety logic in PLC.
- ⇒ Calibration of field instruments using Siemens PDM & configuration of SIPART Valve positioner.

Project Management

- ⇒ Overseeing project engineering activities including project scheduling, monitoring the project and coordinating with all departments / Project Engineers/ Project Managers for perfect execution of the work.
- ⇒ Conducting Client Kickoff meetings / Internal meetings for project planning and engineering discussions.
- ⇒ Hardware estimation & initiation of procurement actions.
- ⇒ Obtaining timely approvals for Engg. documents from Client
- ⇒ Coordinating between various departments within the organization for smooth & timely completion of the project.
- ⇒ Adhering to Quality Standards & practices and maintaining quality in documentation.
- ⇒ Dispatch support
- ⇒ Conducting FAT (Factory Acceptance Test) and SAT (Site Acceptance Test) with Clients.
- ⇒ Installation & Commissioning .

Significant Highlights

- ⇒ Appreciation for Initiating & Developing an engineering tool for PREFAB cable scheduling and Auto-NestLoading(I/O Assignment) which helped the team save significant time. Used Access & Excel VBA coding to implement the same.
- ⇒ Successfully implemented same day punch-points clearance philosophy during Factory Acceptance Test (SAT) with clients faster completion of dispatch before deadline.
- ⇒ Appreciation for excellent coordination and successful timely execution of FAT of large and mid size projects from Client and Yokogawa team.
- ⇒ Got Appreciation from Customer at site for establishing third party communication with Vacon VFD's & Siprotec relay since there was minimal technical assistance from Vendor at site.
- ⇒ Excellent team player and proficient in executing fast track projects.
- ⇒ Successfully commissioned First VM Ware VSphere PCS7 Project in India Single handedly.
- ⇒ Successfully generated Panel GA/IA & wiring using Comos Platform.
- ⇒ Successfully configured Process historian and integrated with Simatic information server for report generation.
- ⇒ Successfully configured and integrated Alarm control center via GSM with PCS 7 9.0.
- ⇒ Successfully configured data to OSI PI in layer 3.5 from Process Historian in Layer 3
- ⇒ Adequacy Report for new ESPs for ADNOC projects.
- ⇒ Site survey reports for new and up gradation projects

Key Projects Executed

Furnishing below few of the key projects handled :

Domestic Projects

Yokogawa India Ltd

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|----------------------|---|---|
| 1. Client | : | M/s. GUJARAT ALKALIES AND CHEMICALS LTD |
| Project Title | : | Migration - DCS |
| Plant Type | : | Chemical |
| Role | : | Project Engineer |

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|----------------------|---|--|
| 2. Client | : | M/s. Larsen & Toubro (L&T) Ltd. |
| End User | : | M/s. Gujarat Narmada Valley Fertilizers & Chemicals Ltd. |
| Project Title | : | Grassroot – DCS & ESD |
| Plant Type | : | Chemical |
| Role | : | Project Engineer |

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|----------------------|---|--------------------------------|
| 3. Client | : | M/s.MANALI PETROCHEMICALS Ltd. |
| Project Title | : | Expansion-DCS |
| Plant Type | : | Chemical |
| Role | : | Project Engineer |

SIEMENS Ltd

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|---------------|---|--|
| 4. Client | : | M/s.Archean chemical industries prviate Ltd. |
| Project Title | : | Grassroot -DCS |
| Plant Type | : | Marine Chemical |
| Role | : | Project Engineer |
| 5. Client | : | M/s.Linde Tata KPO-ASU. |
| Project Title | : | Grassroot -DCS |
| Plant Type | : | Air Separation Unit(ASU) |
| Role | : | Project Engineer |
| 6. Client | : | M/s. Technithon International Pte Ltd., Singapore. |
| Project Title | : | Grassroot -DCS |
| Plant Type | : | Asphal Sulphonation unit |
| Role | : | Project Lead |
| 7. Client | : | M/s.Linde _ITC_Bhadrachalam |
| Project Title | : | Grassroot -DCS |
| Plant Type | : | Air Separation Unit(ASU) |
| Role | : | Project Engineer |
| 8. Client | : | M/s.Reliance Nagothane |
| Project Title | : | Grassroot -Saftey system |
| Plant Type | : | Petrochemical |
| Role | : | Project Engineer |
| 9. Client | : | M/s.Indian Oil Corporation Ltd |
| Project Title | : | Grassroot –Coke Drum System Package |
| Plant Type | : | Petrochemical |
| Role | : | Project Lead |

International Projects

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|---------------|---|-------------------------------|
| 1. Client | : | M/s. Linde_Rupganj_Bangladesh |
| Project Title | : | Grassroot – DCS |
| Plant Type | : | |

Silvertech Middleeast fzco

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|---------------|---|----------------|
| 1. Client | : | Adnoc Offshore |
| Project Title | : | UMM-AL-DALKH |
| Plant Type | : | |

Roles and Responsibilities handled in the above projects are furnished below :

Handled complete Project Engineering and Project Management for the above jobs which involved successful execution of the following activities :

- Effectively Coordinating and conducting Client meetings (Project Review meeting ,SDM , FAT)
- Detailed Site survey , Review of P&IDs and generation of IO/list , System Architecture , Control room drawings , Grounding schemes , detailed networking schemes , Cabinet and Console engineering , Cable scheduling , Loop drawing generation.
- Expertise in detailed networking of large systems having multiple domain OFC connectivity
- Expertise in establishing Third-Party system communication using profibus -with SIEMENS PCS7
- Designing of profibus connectivity for the plant
- Calibration of field instruments using Siemens PDM, configuring SIPART valve posistioner.

- ↪ Project Engg. Database management
- ↪ Panel and Console Design Engg. & Materials Procurement
- ↪ Generation of wiring drawing & Loop Drawing.
- ↪ Timely Delivery of engineering documents requested by Client and effective Client follow-ups for smooth execution of project.
- ↪ Maintaining Quality records, follow-up's with internal departments & Proper Project Documentation
- ↪ Staging of the system and conducting Pre-FAT for system testing - Troubleshooting of issues that appear during PreFAT giving an error free demonstration to Client during FAT.
- ↪ preparation of functional logic's of any complexity, from P&ID's, control narrative or process write-up for the relative loops.
- ↪ Development of Interlock schemes from Control Narrative, Process flow diagrams and P& ID's for DCS .Generation and debugging of process flow drawings (Graphics)
- ↪ SIMOCODE hardware connectivity with Siemens PCS7,operation & testing of Simocode with PCS7.
- ↪ Execution of FAT with Clients
- ↪ Dispatch support
- ↪ Final as-built documentation generation
- ↪ Erection & Commissioning support at site.

Education

- ↪ **B-Tech in Instrumentation** from vidhyavardini College of Engineering and Technology , vasai, Thane- Mumbai University in 2011

Training Programmes

- ↪ **Internal Training- SIEMENS PCS7, Step7,Yokogawa DCS Centum VP**
 - SIEMENS PCS7,Step7 Basic Training From Siemens SITRAIN Kalwa,Mumbai
 - Engineering in CS3000, Prosafe, Integration of Prosafe with CS3000 DCS, Download Types
 - Comos-Sidec PCS7 integration

DoFS (Details of Functional Safety) Training (Safety Training)

Certified by Yokogawa India Ltd.

Other Skillsets

Software Skills

- Yokogawa - Centum VP , Centum CS 3000 , Prosafe RS
- SIEMENS-PCS7, Step 7,PDM,Vmware Vsphere
- Proficient in Access VBA coding
- Expertise in MS Office tools
- COMOS
- Capable of learning new coding languages / Software's in fast pace

Personal

- Creative with effective interpersonal skills and organizational abilities
- Acknowledged by higher authorities and colleagues as a rapid paced Learner, Independent Thinker and Meticulous candidate
- Leadership : strong coordination, planning, and problem solving abilities
- Fine communication skills to present ideas precisely and clearly
- Good team player and have good interaction skill to coordinate and work within a team
- Always prefer to take a pragmatic and sensible approach when faced with problems
- Ability to work under pressure in, time-sensitive, fast-paced environments.

Personal Vitae

Name	:	N.Arvind Menon
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