Professional Profile Lead Instrument Designer | SP3D & AutoCAD Administrator

Krishnaprasad Jyotinagar Rajashekar (KP)

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Career Summary

- Twenty-nine years of career experience with EPC, design engineering consultancies, contractors, and onshore & offshore, oil & gas companies as a Senior Instrument / Lead Instrument Designer, Instrument Checker, SPI, SP3D & AutoCAD user/administrator and a PDMS user to grow with the esteemed organisation and to exhibit as well as incur my quality and knowledge respectively.
- Twenty-five years of oil & gas experience in Instrumentation and Control system engineering and design draughting deliverables, managing the E & I discipline design team of 3D modellers & 2D drafters on assigned or phase of assigned project. And also, assisting the E & I construction team.
- Instrumentation/Automation/FGS/SCADA-Telecoms/Electrical cable trays and equipment/devices installation construction deliverable packages are prepared to meet HSE requirements & standards.
- Continues learning for better engineering practices and knowledge in design tools; SPI, SP3D & AutoCAD User/Admin, CAXperts, MS Office, PDMS, PDS, MicroStation, NAVISWORKS and PDF.
- Employed with OIL companies; BANOCO-Bahrain, WOC-Libya and EPC companies; Black Cat Engineering-Qatar, WoodGroup-CCC-Oman and DeltaAfrik-WorleyParsons-Nigeria, Fortune-Dubai.
- Performed tasks for FEED and DED projects; Well Manifolds, Gas-Oil-Water Separators, Gas Dehydration Units, Oil & Gas network pipelines and Wellhead, Production Platforms and, FPSOs.
- Performed aforesaid tasks for projects; DED for FPSO Cyrus, Chevron FGP-Offshore & Onshore FEED concepts, DED for EGINA FPSO, ADDAX Antan, QP Gas Turbines and PDO Bahaja fields.
- Performed instrumentation engineering, design and draughting tasks for oil companies; Waha Oil Company and BANOCO's Oil & Gas onshore Brownfield and Greenfields field facilities.
- Performing project discipline administrative tasks including; developing, monitoring manpower and schedule requirements, able to conduct field survey and willingness to travel for field assignments.
- Ensuring instrumentation deliverables for technical quality, accuracy and compliance with various design tools, procedures and codes-regulations-specifications-standards-recommended practices.
- Maintaining design draughting data and preparing work share packages, checking work assigned to Designers and CAD Technicians for technical quality and compliance with customer and standards.
- Managing the design drafting team for the aforementioned tasks with oil & gas operating companies;
 WOC-Libya and EPC companies BlackCAT-Qatar, DeltaAfrik-Nigeria and Fortune Energy-Dubai.
- Prepared DED instrumentation deliverables for Brownfield onshore oil & gas field facilities modifications/upgrade; conduit routings, cable trays/tube trays sizing & routings, termination diagrams, cable diagrams, cable schedules & junction box schedules, MTO/BOQ/RFQ's, etc.
- Prepared FEED instrumentation deliverables for Greenfield offshore gas field facilities for Chevron's Funiwa Gas Project-Well head, Production and Living quarters platforms; Fire and Gas layouts, Fusible loop layouts, LP's escape way layouts and block diagrams MCT layouts, etc.
- Prepared DED instrumentation deliverables for Brownfield offshore oil & gas field facilities modifications/upgrade for ADDAX Antan project; Fire and Gas & fusible loop layouts, remote I/O termination details, FOC routing layouts, loop diagrams, hook-ups, MTO/BOQ's, etc.
- Prepared DED E&I deliverables for Greenfield offshore Egina FPSO; PCS/ESD/FGS cable block diagrams & HVAC E&I interface cable block diagrams for all technical and control rooms and assisted 3D modellers and SPI users, etc.
- Prepared DED E&I deliverables for FPSO Cyrus; PCS/ESD cable block diagrams, installation drawings, hook-ups, cable tray sizing, earthing & location layouts, cables/glands/junction boxes/cable & tube trays/tubes & fittings/installation structure materials/consumables MTO/BOQ/RFQ's and assisted 3D modellers, etc.

Knowledge

- Applying basic engineering and design draughting concepts, scheduling/reviewing/resolving 3D model interferences/clashes for Instruments-FGS-PAGA equipment's, supports and cable trays.
- Attending project meetings and various review sessions like Model Review, HAZAOP & SSFA Review, Lessons Learned and etc. Conducted "Cause and Effect Review Workshop".
- Ability to prepare various Instrumentation deliverables; legends, symbols and CADD standards, engineering guidelines and standards, loss prevention deliverables, demolition drawings and etc.
- Ability to prepare Instrument project deliverables; Instrument system architecture diagrams, instrument standard drawings, Instruments-FGS-PAGA indices, I/O list and layouts and etc.
- Ability to prepare FFB deliverables, cable block diagrams, safe charts, cause & effect charts, logic diagrams, MTOs, BOMs, RFQs & Work Packages for construction and etc.
- Ability to prepare various E & I support structure fabrication design and detail drawings with complete Material Take Off (MTO) deliverables as per project specification.
- Ability to discover issues and recommend solutions to business problems uncovered during course of performing assignments.
- Ability to prepare MDR (Master Document Register) based on the project scope of work and basis of design.
- Ability to prepare DSC (Design Scope Change) based on the project scope of work and basis of design.
- Ability to maintain DED & As-Built documentation within the company specification, industry standards, etc.

Attitude

- Providing design sketches/technical guidance utilizing theoretical and practical design knowledge for drawing/model preparation by Designers and CAD Technicians.
- Providing training, weekend classes and mentoring of young CAD Technicians, Designers and Engineers. Providing input to performance appraisals of lower level personnel.
- Effective use of computer and internet knowledge comfortable working in a technology savvy environment.
- Using interpersonal skills and working effectively in multi-cultural environments. Also possess interpretive, written and oral communication skills.

Key Qualifications

 Continuous learning for better engineering practices to stay abreast of on-going developments by studying new instrument standards, techniques, magazines & catalogues. Participation in meetings, presentations, various design tool forums and other networking opportunities to remain viable.

Educational Qualifications

1982-1984 Mechanical Draughtsman course; 1987-1988 Electrical Draughtsman course; 1988-1989
 Piping Draughtsman course

Affiliations

 Member of Computer Society of India (CSI) – Life Membership Number: 00103106; Member of Instrument Society of America (ISA) – Senior Membership Number: 32911311

Professional Training and Courses

- Underwent various design tools 2D and 3D Plant Design CAD concepts trainings; SPI 2013 (INtools)
 Advanced User/Admin and SP3D 2014 Equipment Modelling/Setup & Administration and SPI 2007
 and PDMS 11.6, PDS 07.01.00.10 and CADWorx P&ID Professional 2005.
- Underwent extensive training in H2S/Breathing Apparatus in Qatar and PDO HSE Training Passport in Oman (HSE, H2S and IFR & DHR).
- Underwent extensive one year training from June 1987 to May 1988 in Instrumentation Design and Draughting at Fair Service Organisation-Instrumentation engineering consultants in Mumbai, India.

Skills

Verifiable extensive AutoCAD, SPI-User level/Admin, MS Office, CADWorx P&ID and PDF. Experience with windows operating system architecture and other applicable hardware and software to perform duties. Familiar with PDMS, PDS, MicroStation, NAVISWORKS, SP3D Equipment Modelling/Setup & Administration, SmartPlant Foundation and SmartPlant Cloud.

Engineering Management

Estimation, project schedule and MDR, Instrumentation; design draughting and CADD team mentoring, specifications and standards, self-check, check-print and IDC, redline mark-ups and asbuilt, control system, hazardous area and intrinsic safety, HSE and QA/QC and PTW and tool box talk. Managing Design Scope Change (DSC) and Work Packages for construction.

Design Draughting

Legends, symbols and CADD standards, engineering guidelines, industry codes and standards, design tool setup, customization of symbols, templates and layouts, instrument project & FFB, loss prevention-F&G deliverables, safe charts, cause & effect charts, FGS cause & effect charts, logic diagrams, MTOs, BOMs & RFQs and deleted / demolition deliverables and site visits.

CADD & Design Tools Skills and Abilities

- SmartPlant Instrumentation-SPI (INtools) Enhanced Report / SmartSketch / AutoCAD / MicroStation / Excel / PDF: Instrument index module, wiring module, hook-up module, loop diagrams module, browser module, customization of symbols and document binder.
- SmartPlant Instrumentation-SPI (INtools) Setup & Administration: Oracle database installation, setup & initialisation, customization of symbols, templates and title block, document binder tasks.
- SP3D (SMART 3D/SmartPlant 3D) SmartSketch / MicroStation / AutoCAD: Modelling of instruments, FGS & PA/GA equipment, stands, racks, junction boxes with support frames and etc., interference checking and MTOs.
- SP3D Setup & Administration: Oracle & MS SQL server database and SP3D installation, project setup, model area management, permission groups & user access control, catalogue & specification creation and bulk loading, drawing extraction and etc.
- PDS 3D and EE Raceway SmartSketch / MicroStation / AutoCAD / PD_Report: Modelling of instrument/loss prevention/telecoms cable trays on pipe rack, branch cable trays, underground cable trenches & duct banks showing in strip, local panels with access volumes, junction boxes with support frames & access volumes, instrument-offline, all model databases and etc., interference checking, extracted instrument-JB location-cable routing layouts and MTOs.
- PDMS AutoCAD / MicroStation / PDF: Modelling of instrument/loss prevention/telecoms cable trays, cable design-cableways, off-line instruments & JBs structure/stands/racks and escape routes, clash detection, extracted instrument–JB location-cable routing layouts and MTOs.
- AutoCAD PDF: P&IDs, overall system architecture diagrams, wellhead control system schematics, instrument equipment, technical & control room, RTU room, telecoms room, UPS & battery room space requirement layouts, instrument cable block & instrument wiring diagrams, logic diagrams, FCS/DCS configuration diagrams, instrument-JB location-cable tray routing & coaming layouts, MCT layouts, hook-ups, installation drawings, heat tracing drawings & FGS and PA/GA equipment location layouts, LP escape route layouts, telecom network conceptual diagrams, demolition-destruction drawings, and etc. CADD standard check.
- MS Access, Excel and Word PDF: Instrument index/list, instrument I/O list, cable schedule, cable tray sizing calculations, safe charts, cause & effect matrix, FGS cause & effect matrix, MTO/BOQ/RFQ and various specifications and memos.
- **XBCC:** Managing all the MTO, communication and correspondence activities BLACK CAT document management and control system.
- VBC: Visual Byblos Cyberspace WoodGroup-CCC document & drawings management and control system.
- SPF: SmartPlant Foundation DeltaAfrik-WorleyParsons document & drawings management and control system.
- **Safety-in-Designs:** Various types of cable trays and instrument/equipment installation construction deliverable packages are produced in accordance with SID, HSE requirements and standards.

Experience

Fortune Engineering & Energy Services, Dubai, UAE

Senior Instrument Designer, October 2015 – To present. EPC Company for oil & gas field facilities. **Projects:** Avantgarde Shipping's FPSO Cyrus – E&I detailed design, material RFQ's and support structure fabrication for topside six modules for skid/loose supply equipment. Managing the project E&I team of 3D modellers & 2D drafters for project FPSO Cyrus. And also, assisting the E & I construction team.

DeltaAfrik Engineering Limited - WorleyParsons Lagos, Nigeria

Lead Instrument Designer, June 2012 – July 2015. EPC Company for oil & gas field facilities. **Projects:** FEED task for Chevron's Funiwa Gas Project-onshore & offshore concept, DED task for Total's EGINA FPSO and DED task for ADDAX's Antan-offshore. Managing the project instrumentation discipline team of 3D modellers & 2D drafters and DED task for ADDAX's Ofrima Udele-offshore project; prepared MDR for four platforms.

WoodGroup-CCC Ltd., (Oman Branch), Muscat, Oman – PDO

Senior Designer-Control & Automation, January 2012 – April 2012. Engineering and Maintenance Contract for PDO's oil and gas field facilities.

Projects: Performed instrumentation as-built task for PDO's Bahja oil and gas field facilities.

Black Cat Engineering & Construction Co. W.L.L., Doha, Qatar

Senior Instrument Designer, July 2011 – January 2012. EPC Company for oil & gas field facilities. **Projects:** Performed instrumentation as-built, demolition and DED task for QP's gas turbines. Managing the project instrumentation discipline team of 2D drafters.

Waha Oil Company (WOC), Tripoli, Libya – Teknica/Taknia Libya Engineering Company
 Sepirary 2011, Seconded to the engineering department of the engineering department.

Senior Instrument Designer, March 1998 – February 2011. Seconded to the engineering department, design & draughting section of Waha Oil Company.

Projects: Performed instrumentation, automation, loss prevention and telecoms as-Built, demolition, facility upgrade, FEED and DED project tasks for following areas; well flow lines, well manifolds, oil plants, gas turbines & compressors (Solar & GE), power plants, metering systems, oil transmission network, oil terminal & new projects like SCADA system upgrade and etc. Managing the E&I team of 2D drafters.

■ The Bahrain National Oil Company (BANOCO), Awali, Bahrain – Comsip Al A' Ali Cegelec Instrument Designer and Draughtsman, September 1990 – January 1998. Seconded to the projects

department, design & draughting section of BANOCO.

Projects: Managed aforesaid deliverables for oil and gas field facilities and HIDD Pipelines project.

Eurrestra Industries Limited, Mumbai, India

Instrumentation Draughtsman, June 1989 – September 1990. Turnkey engineering contractor for agricultural and chemical based plants.

Projects: Performed instrumentation deliverables for Agricultural and Chemical based projects.

Fair Service Organisation, Mumbai, India

Instrumentation Draughtsman, June 1987 – May 1989. Instrumentation engineering service consultancy for various major EPC companies and industries.

Projects: Managed instrumentation deliverables for NPC, DAVY, DALAL, EIL and various consultants & industries in Mumbai, India.