**Profession:**

A graduate in Mechanical Engineer with over all 25 years of extensive Design experience in Piping.

**Specialisation:**

**Experienced in (Middle East),**

* **Oil & Gas and Petro-chemical projects (onshore/offshore**): FEED, Detailed Engineering Design, EPC, PMC, As-built projects, mostly for Abu-Dhabi Oil & Gas Company projects viz. ADMA-OPCO, ADCO, ZADCO, GASCO, ADGAS, ADOC, Bunduq, Dolphin Energy Ltd., & NPCC through leading EPC Project Consultants viz. TECHNIP, ILF, CH2MHILL–VECO and LITWIN-PEL.
* Providing design & field engineering support to the site team, project co-ordination during construction, installation and commissioning activities like design change, modification, clarification, hydrotest (test packs), procedures, reports, method statements preparation, punch listing,
* Performing site surveys and data gathering activities at fields and liaising with clients,
* Involving in design team activities and assisting Lead Engineers with resource scheduling and man hour,
* Preparing Material Take-off, Man-hours estimation for tenders, sketches, 2D drawings, detailing, 3D models using cadd tools and reviewing of vendor documents & 3D models by SPR and Navisworks,
* Preparing Piping deliverables like Data sheets, MR, TBE, Specification, Tie-in List, Reports, Calculations,
* Preparing freehand sketches, 2D drawings, detailing using caddtools viz. AutoCAD,
* Checking 3D PDS, CADWorx models and conducting model review session using SPR and Navisworks,
* Having an adequate knowledge in piping design, material and installation practices, including the application of Industrial Codes and Standards like ASME, API, ANSI, ASTM and SHELL.

**Experienced in (India),**

* **Industrial Projects:** Plant Design for thermal(coal fired-steam,diesel) power plants, windmill farm, cement, sponge iron, sugar, ceramic, refractory, chemical process, water treatment, HVAC plants & its allied process/rotating equipments, pressure piping/vessels, industrial bulk material handling systems & project management consultancy services (deputed to M/s. Holderbank Management Consultant, Switzerland).
* Reviewing of vendor drawings, equipments, data sheets, calculations & specifications and incorporating changes in the affected plant layouts, drawings & documents.
* Preparing Plant equipments layouts, plot plan, models, detailing of equipments, machine components, piping isometrics, sketches, fabrication and structural drawings by manually and electronically (AutoCAD).

**Computer Skills:**

Having basic working knowledge in,

* Drafting Cadd Tools : AutoCAD, Micro-station
* Modeling software : PDS, CADWorx
* Model Reviewing Software : Smart Plant Review (SPR), Navisworks
* Analysis software : CAESAR-II (basic)
* Data Base Management System : WRENCH, ADNOC Group of Companies’ EDMS systems.
* MS Office & Windows Applications.

**Summary of Job Responsibilities:**

* Worked as Piping Engineer for Field Modification (FMP) and Construction Projects, Dolphin Energy Ltd., Ras-Laffan, Qatar and ZADCO-ZIRKU Jetty Extension Projects,
* Also worked as Piping Engineer (PMC), to review project deliverables for ADGAS-EPC Works for Paraffinic Naphtha Tanks Replacement Project.
* Worked as Piping Engineer for the recently completed ‘’ADMA-OPCO - Replacement Of Buried Pipework in Storex Tank Area’’ in Das island.
* Ability to conceptualize and develop Plot Plan, Equipment Layout and Piping Layouts.
* Leads a team of designers by providing input/check list to prepare piping study, Plot Plans, Piping Layouts, isometrics, 3D modelling and Material Take off.
* Checking of 2D drawings and 3D models, which are prepared by designers.
* Providing preliminary pipe support input to 3D modeling for stress isometrics.
* Providing pipe rack and main pipe supports’ load data and other input to Civil and other disciplines.
* Co-ordinating with other discipline for Squad check drawings and vendor drawing information.
* Preparing standard connections drawings and Pipe Support Standards.
* Conducting 3D Model reviews and preparing tags and Model review reports.
* Checking the model after clearing the listed tags.
* Reviews contract requirements for project execution, organize the preparation of the Engineering Document Deliverable Register (EDDR), identify requirements and scope of work, review specifications Process Data Sheets (PDS), Piping Material Specifications (PMS), Piping & Instrumentation Diagrams (P&IDs), Plot plans, General Arrangement (GA) drawings.
* Vendor Document Review, Model Reviews and Solving the encountered tags by Clients.
* Preparing and evaluating the plot plans, engineering drawings and technical documents issued for Internal Design Checks, Clash Checks in PDS Module/SPR.
* Attending internal review activities and inter-discipline check meetings.
* Making site visits for collecting input for brown field plant modification works.
* Preparation of Piping Material Spec. and Wall Thickness Calculations.
* Preparation of Specification for Plant Design and Layout and Pipes, Fittings, Gaskets, Bolts.
* Preparation of MR and TBE for Piping Bulk, Specialty Items and Valves.
* Feeds the Piping and Layout Department improvement system by reverting the lessons learned during the project.
* Preparing Piping drawings using CAD & Drafting tools viz. AutoCAD, CadWorx, etc.,
* Having Knowledge of codes (API, ASME etc.) and standards (eg. NACE, ASTM etc.)

**Employment / Career History:**

**Presently,**

**TARGET Engineering Construction Co., Abu Dhabi, UAE**

**Project Engineer (Piping)**

**Oct-2016 – Jan-2017** (Short term assignment)

**Projects Involved:**

**ADOC – Abu-Dhabi,** (EPC for Causeway Pipelines Project),

* Position: Project Engineer (Piping)
* Name of Project: EPC Works for Causeway Pipeline Project (ADOC – Mubarraz island, Umm Al-Anbar & Neewat Al-Ghalan Fields).
* Project Responsibilities: Involved to prepare Project Non-Engineering Deliverables / Documents like Method Statements, procedures, drawings’ review, co-ordination with ADOC PMC team and site.

**Previously, worked for,…**

**CH2MHILL Energy Canada Limited, Abu Dhabi, UAE**

**Piping Engineer**

**Dec-2006 – Sept-2016**

**Projects Involved:**

**ADGAS – Abu-Dhabi,** since 2014 (recently completed),

* Position: PMC Engineer (Piping)
* Name of Project: EPC Works for Paraffinic Naphtha Tanks Replacement Project.
* Project Responsibilities: Involved as PMC Piping Engineer in reviewing issued documents and drawings from consultant and contractor.

**DOLPHIN Energy Ltd., Qatar,** since 2011 (recently completed),

* Position: Lead Engineer (Piping)
* Name of Project: On-call Engineering & Technical Services- Various Field Modification Proposals / Projects (FMP)
* Project Responsibilities: Involved in site survey, attending project meetings, piping Study, design, preparing data sheets, checking of Plot Plans, Piping Layouts, Isometrics, 3D models and Material Take off, etc.,

**ZADCO, Abu-Dhabi**, in 2015 (recently completed),

* Position: Lead Engineer (Piping)
* Name of Project: Zirku Island, Jetty Extension Project.
* Project Responsibilities: Involved in Leading the Piping Team, site survey, attending project meetings, co-ordination, Data collection from Client office, piping Study, design, preparing data sheets, Specifications, Design Basis, checking of Plot Plans, Piping Layouts, Isometrics, 2D models and Material Take off, etc.,

**LUKOIL Company, UAE**, in 2013

* Position: Piping Engineer
* Name of Project: Technical Review of FEED Documentation for EPC of Gas Treatment
* Project Responsibilities: Involved in piping Study and review of FEED design, model and piping documents.

**RUMAILA Operating Organization, IRAQ** in 2012

* Position: Lead Piping Engineer
* Name of Project: Oil Tanks Repair and Modifications Job.
* Project Responsibilities: Involved in collecting site input, attending project meetings, piping Study, design, preparing data sheets, checking of Plot Plans, Piping Layouts, Isometrics, 2D dwgs, 3D models and Material Take off, etc.,

**PERTRONAS, IRAQ** in 2012

* Position: Piping Engineer
* Name of Project: New Field Development Project for Petronas, Cargali
* Name of Project: Detailed Engineering for Enhancement of Offsite Facilities,
* Project Responsibilities: Involved in piping Study, design, checking, preparing standard connection and pipe supports, sketches, data sheets, checking of Plot Plans, Piping Layouts, Isometrics, 2D dwgs, 3D models and Material Take off, etc.,

**AL-WAHA Petroleum Company Ltd., IRAQ** in 2010-2011

* Position: Piping Engineer
* Name of Project: AHDEB Oilfield Surface Facilities Development Project,
* Area Involved: Overall Fire Water System Net-work, U/G Piping system, Produced Water Treatment system, Gas Processing Area, Water Supply and Pumping Plant from Tigris River.
* Project Responsibilities: Involved in piping Study, design, checking, preparing standard connections and pipe supports, sketches, data sheets, checking of Plot Plans, Piping Layouts, Isometrics, 2D dwgs, 3D models and Material Take off, etc.,

**GASCO, Abudhabi, UAE** in 2011

* Position: Piping Engineer
* Name of Project: Asab, Bab, Buhasa & Ruwais Modifications Project (ABBR-FEED),
* Project Responsibilities: Involved in preliminary piping Study, design, checking, preparing sketches, checking of Plot Plans, Piping Layouts, Isometrics, 2D dwgs, 3D models and Material Take off, etc.,

**ADMA-OPCO, Das Island, Abudhabi, UAE,** in 2007-2010

* Position: Piping Engineer
* Name of Project: Replacement Of Buried Pipework in Storex Area, Das island.
* Project Responsibilities: Involved in site survey, collection of data from site & client office, attending project meetings, piping above and u/g Study, design, checking, preparing standard connections and pipe supports, sketches, data sheets, checking of Plot Plans, Piping Layouts, Isometrics, 2D dwgs, 3D (CADWORX) models and Material Take off, etc.,

**ADCO, Abudhabi, UAE,** in 2007

* Position: Piping Engineer
* Name of Project: FEED for Bida Al-Qemzan Field Development Project.
* Name of Project: EPC – Detailing work in Plant Modification of Manifolds in RDS-5&6 Project.
* Project Responsibilities: Involved in site survey, collection of data from site & client office, attending project meetings, piping study, design, checking, preparing sketches, data sheets, checking of Plot Plans, Piping Layouts, Isometric drawings, 3Dmodels and Material Take off,.

**ADGAS, Das Island, Abudhabi, UAE,** in 2006-2007

* Position: Piping Engineer
* Name of Project: Engineering Services for ADGAS – New Nitrogen Plant-10 Project.
* Project Responsibilities: Involved in site survey, collection of data from site & client office, attending project meetings, piping study, design, checking, preparing sketches, data sheets, Vendor Documents Review, checking of Plot Plans, Piping Layouts, Isometric drawings, Material Take off,.

**ALPAN Consulting Engineers Private Ltd., Chennai, INDIA**

* Position: Piping Engineer (PDS),
* From July 2006 to Nov. 2006
* Name of Project: Worked in FEED Projects for Oil and Gas and Chemical Plants, as a freelancer.
* Project Responsibilities: Involved in piping study, design, preparing 3D PDS Models, sketches, data sheets, Vendor Documents Review, checking of Plot Plans, Piping Layouts, Isometric drawings, Material Take off,.

**ILF Consulting Engineers, Abudhabi, UAE**

* Position: Senior Piping Designer,
* From Jan 2005 to June 2006
* Name of Project: FEED for Integrity Evaluation of ADCO Pipelines Pig Launcher & Receiver Systems” of ADCO Oil Fields, ABUDHABI (All areas, from CDS to Jebel Dhanna Tank Farm).
* Project Responsibilities: Involved in site survey, collection of data from site & client office, attending project meetings, piping study, design, preparing sketches, data sheets, Vendor Documents Review, checking of Plot Plans, Piping Layouts, Isometric drawings, Material Take off,.

**TECHNIP, Abudhabi, UAE**

* Position: Senior Piping Designer,
* From Feb 2004 to Oct 2004
* Name of Project: FEED project for “Field Modification woks in Umm Al-Nar Refinery, Abudhabi”.
* Name of Project: EPC project for “North East Bab (NEB-ADCO), Abudhabi” (Al-Dabbiya, Rumaitha and Shenaiyal Oil Fileds).
* Name of Project: EPC project for “Soroosh-Noroosh Offshore Platforms Construction Projects, Iran” (Design & Development Activities).
* Project Responsibilities: Involved in attending project meetings, piping study, design, preparing sketches, Vendor Documents Review, checking of Plot Plans, Piping Layouts, Isometric drawings, Material Take off, Assisting Piping HOD in preparing tender proposals, Man-hour estimation.

**National Petroleum Construction Co., (NPCC), Abudhabi, UAE.**

* Position: Senior Piping Designer (Field Construction Co-ordinator),
* From Jan 2003 to Jan 2004 (On deputation)
* Name of Project: Field Construction Co-ordinator for the construction of “Soroosh-Noroosh Offshore Oil & Gas Production, Processing and Living platforms, in Abudhabi and Iran”.
* Project Responsibilities: Involved in site fabrication / construction co-ordination activities, attending site co-ordination meetings, preparing sketches at site to solve site clashing and fabrication problems, preparing MTO and arranging materials to site, Dimensional checking w.r.t. P&IDs, Piping layouts, Isometrics, Preparing Test packs and Temporary pipe spool sketches for Hydro Test and Punch list preparation for Commissioning. Preparing mark-ups for As-built model updation.

**ADGAS, Das Island, Abudhabi, UAE.**

* Position: Design Draftsman (Mechanical/Piping),
* From Oct 2000 to Dec 2002 (On deputation)
* Name of Project: “LNG Jetty Longevity Project Phase I, II & III and LNG Pipeline As-built project”.
* Name of Project: “Field Modification and Proposals Preparation (MOD)”.
* Project Responsibilities: Involved in site survey and As-Built Piping, Structural, P&IDs, Mechanical and various Field Modification Drawings (MOD) preparation, Material Take-Off.

**GASCO, Abudhabi, UAE.**

* Position: Senior Piping Designer (Piping Team Leader),
* From Jan 2000 to Sep 2000
* Name of Project: FEED Project for GASCO, Buhasa Integrated Control System (HICS).
* Project Responsibilities: Involved in site survey and P&ID As-Built mark-ups preparation and updating P&IDs, from GOSP area to Flare area (The whole plant).

**PAN Emirates Engineering Ltd., Abudhabi, UAE.**

* Position: Senior Designer (Mechanical/Piping),
* From Apr 1998 to Dec 1999
* Name of Project: “ Electronic Coversion of Manual Drawings to CAD Project for ADCO, ADGAS, GASCO and ZADCO Oil Companies, ABUDHABI”.
* Name of Project: Design & construction of new pipeline project “Bab Heavy Hydro Carbon Diversion to ADCO” in GASCO, BAB, HUBSHAN.
* Name of Project: “Design & construction of new Well Head piping projects” in BUNDUQ Oil Company (Offshore Platforms)
* Name of Project: “Up-grade project for the replacement of utility water pipeline & Fresh- Salt water pipeline upgrade project in PS-4” in QATAR Petroleum(QP), Halul Island.
* Project Responsibilities: Involved in CAD Drawings Quality control activities, AutoCAD customization activities, Data, Drawings collection and clarification from clients, co-ordinating CAD Designers, Checking of electronically converted cad drawings and involved in drawing conversion activities using GTS Raster, AutoCAD software and Digitizers,
* Involved in site survey, collection of data from site & client office, attending project meetings, piping study, design, preparing sketches, Vendor Documents Review, checking of Plot Plans, Piping Layouts, Isometric drawings, Material Take off.

**AWAL GULF Mfg. Co., Manama, BAHRAIN,**

* Position: Design Engineer,
* From Aug 1997 to Apr 1998
* Name of Project: HVAC and utility Piping Project works for BAPCO, Bahrain and HVAC, Refrigeration and Air-Conditioning Product Development Projects.
* Project Responsibilities: Involved in attending project meetings, Site survey, HVAC, Chiller pipe and air duct routing study, Heat Load Calculations, design and preparing hand sketches and CAD drawings, Vendor Documents Reviews, checking of Plot Plans, Piping Layouts, Isometric drawings, Material Take off for utility piping for Power Plant projects.

**TRUST Consultants, Chennai, INDIA,**

* Position: Design Engineer,
* From Jun 1995 to Jul 1997
* Name of Project: HVAC, Power and Chemical Plant Piping Projects for various clients in India.
* Project Responsibilities: Involved in attending project meetings, Site survey, HVAC, Chiller pipe and air duct routing study, Heat Load Calculations, design and preparing hand sketches and CAD drawings, Vendor Documents Reviews, checking of Plot Plans, Piping Layouts, Pipe supports, Isometric drawings, Material Take off for Power Plant Piping project.

**NEXUS International LLC, Dubai, UAE,**

* Position: CADD Engineer, From Nov 1993 to May 1995
* Name of Project: HVAC, MEP, Power and Chemical Plant Piping Consultancy Services,
* Project Responsibilities: Involved in attending project meetings, Site survey, HVAC, Chiller pipe and air conditioning duct sizing, routing study, Heat Load Calculations, design, equipment selection and preparing hand sketches and CAD drawings, Vendor Documents Reviews, Preparing and checking of Plot Plans, Piping Layouts, Pipe supports, Isometric drawings, Material Take off and Project estimation.

**AL-ZAMIL Group of Companies, Dhahran, KSA,**

* Position: Product Engineer (R&D), From Oct 1991 to Oct 1993
* Name of Project: Steel, HVAC, Oil and Gas Piping Projects for SAUDI ARAMCO (Dhahran, Jubail and Ras-Tanura sites), HVAC, Refrigeration and Air-Conditioning Product Development Projects.
* Project Responsibilities: Involved in attending project meetings, Site survey, HVAC, Chiller pipe and air duct routing study, Heat Load Calculations, design and Product Development activities, preparing hand sketches and Steel structural, 3D drawings using Prime and AutoCAD software, Vendor Documents Reviews, checking of Plot Plans, Piping Layouts, Isometric drawings, Material Take off for Power Plant Piping projects.

**DALMIA Group of Companies, New-Delhi / Tiruchirappalli, INDIA,**

* Position: Design Assistant (Mechanical) - Projects,
* From Oct 1983 to Oct 1991
* Name of Project: Engineering Consultancy Services for Dalmia Group (in house) for Chemicals, Power, Water Treatment, Cement, Ceramic, Refractory, Sponge Iron, Sugar plants and Allied Machineries Manufacturing Units and HVAC projects and project management consultancy services (deputed to M/s. Holderbank Management Consultant, Switzerland).
* Project Responsibilities: Involved in attending project meetings, Site survey, project cost estimation, Bill of Quantity, preparation of Plot Plans, Equipment and Piping Layouts, Isometric drawings, Material Take off for Power Plant Piping projects, product, machinery parts, fabrication and structural drawings, manually and electronically using AutoCAD.

**PIPELINES India (Private) Ltd., Tiruchirappalli, INDIA,**

* Position: Design Assistant (Piping), From Jun 1982 to Oct 1983
* Name of Project: Fabrication of Power Piping Spools, Bending and fabrication of Boiler Feed Water Pre-heaters, Steam Super-heater tubes, NDT Inspections like LPI, MPI & Radiography on welded pipes, Preparation of shop spool drawings for fabrication, for Bharat Heavy Electrical Ltd., (BHEL), Tiruchirappalli Unit, Thermal Power Plant Projects.
* Project Responsibilities: Involved in preparation of Plot Plans, Equipment and Piping Layouts, Shop isometric drawings, Material Take off for Thermal Power Plant Piping projects and performing NDT Inspections (LPI, MPI and Radiography) on weldments and Hydro-Test.

**Personal Particulars:**

 **Nationality:** Indian

 **Date of Birth:** 1st, June, 1963

**Education:**

* B.Tech. (Mechanical), IASE University, India.
* AMIE (I) in Mechanical Engineering, Passed Sec. A & B Exams. of The Institution of Engineers (India).
* Diploma in Mechanical Engineering, Government Polytechnic, Tiruchirapalli, India.

**Other Trainings:**

* PMI-Project Management Program, Abudhabi.
* TBOSIET-Tropical Basic Offshore Safety Induction & Emergency Training, Abudhabi.
* **Driving License:** Having Valid UAE Light Vehicle Driving License.
* **Language ability:** English & Tamil (Read, Write & Speak) and Hindi (Speak).