






TUSHAR VATSA

PIPELINE ENGINEER

Tushar Vatsa 
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EDUCATION

Master of Engineering | 2021-In Progress
Chemical Engineering
University of Ottawa
CANADA

Master of Science | 2011
Petroleum & Natural Gas Engineering
Pennsylvania State University
USA

Bachelor of Engineering | 2008
Chemical Engineering
Manipal Institute of Technology
INDIA

EXPERTISE

COORDINATION

Acting as a liase between vendors and clients to ensure optimized workflow and information sharing.

COMMUNICATION

Explaining engineering concepts through simple non-technical related examples.

EFFICIENCY

Avoiding rework that adds unnecessary cost to a project by doing things right the first time.

ENGINEERING PRINCIPLES

Enjoy reviewing drawings and calculations ensuring sound engineering fundamentals.

RELATIONSHIP BUILDING

Genuine interest in getting to know the people around me.

PROFESSIONAL SUMMARY

- Onshore Pipeline Engineer with educational background in Chemical & Petroleum Engineering to supplement the same.
- Chemical/Process and Pipeline Engineer with 10 years' experience across Canada, USA, and India with specific experience in Onshore Pipeline Design & Construction, Natural Gas Utilities, Hydraulic Fracturing, and Natural Gas Storage.
- Experience working on international projects including Wheatstone LNG – Chevron Australia based out of Houston, USA, short stints in Beijing-China, Erbil-Kurdistan, Iraq, Abu-Dhabi-UAE.
- Active member of Society of Petroleum Engineers (SPE) since 2009, registered with APEGA as an EIT.
- Permanent resident of Canada, able to relocate anywhere in the country, need transfer of H1-B Visa to start work in USA.
- Published a research paper in Journal of Energy Resources Technology, ASME Journals – Fracture Height Containment in the Stimulation of Oriskany Formation, Paper No: JERT-11-1174

PROFESSIONAL EXPERIENCE

Pipeline Engineer | Mar 2019- Apr 2019 **MUC Oil & Gas** | Abu Dhabi, UAE

- Onshore pipeline engineer for the development of ADNOC's Rumaitha oil field- responsible for design and procurement of feeder oil pipeline to refinery, pig receiver / launcher, pigs, barred tee, flanges and fittings, pig detectors, pipeline valves, anchor flange, isolation joint and other pipeline assemblies
- Reviewed and issued pipeline drawings including route maps, alignment sheets, plant approach, line diagrams for MET; performed road crossing calculations
- Developed material requisitions, specifications, and datasheets for Line Pipe, Barred Tee, Insulating joint, pig receiver / launcher
- Effective interaction with client ADNOC and contractor Al-Asab for inter discipline coordination and swift resolution of discrepancies on interface issues

Pipeline Engineer | January 2017 – March 2017 **KAR Pipeline – Erbil** | Kurdistan, IRAQ

- Responsible Engineer for design and procurement of 12 and 36-inch Atrush Feeder oil pipeline project, pig receiver, pig launcher, pigs, barred tee, flanges and fittings, pig detectors, pipeline valves, anchor flange, isolation joint and other pipeline assemblies.
- Assisted in development and verification of P&IDs, PFDs, UFDs, project control documents and status reports. Co-ordinated with suppliers and client (TAQA North) to ensure fabrication of pipeline assemblies in compliance to the designated standards and within scheduled constraints.

Construction Engineer | February 2016 - March 2016 **Wood Group Kenny**, New Delhi, India

- Worked as a PMC for domestic pipe natural gas (png) connections, supervised & executed construction of piping, hydraulic testing, meter installation and commissioning of domestic stoves.
- Conducted feasibilities, route surveys for the proposed laying of GI, MDPE piping. Supervise, guide contractors to follow the codes / standards as per the contract, data management.

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TECHNICAL EXPERTISE

Pipeline Design Codes

AS 2885.1

ASME B31.4

ASME B31.8

MDPE, GI, Carbon steel pipeline laying

Vendor print review

Extrusion calculations, wall thickness, road crossing, anchor flange

Deliverability enhancement of gas storage wells

Develop, review, and approve pipeline drawings & isometrics

Pneumatic and pre-hydrotesting hydraulic fracture designs using FRACPRO PT

Review bid proposals, develop technical tabulations, material requisition, specifications, datasheets

Beginners knowledge of CHEMCAD & PIPELINE STUDIO

ABOUT ME

A foodie (Chicken Biryani and Mexican Gumbo are favorites) who enjoys unwinding with friends over coffee, drinks, and good conversation.

A travel of love has led me to study in both Canada and the US giving me a breadth of engineering experience across countries and cultures.

I can never say no to an episode of Entourage.

PROFESSIONAL EXPERIENCE

Field Engineering Intern | June 2015 – July 2015

Schlumberger | Gujarat, India

- Gained hands on experience with well services and wireline group of Schlumberger, worked on performance tests for pumps, inventory assessment, mechanical and electrical inspection of logging tools, associated field visits to supplement theoretical knowledge on cementing, logging operations.

Petroleum Engineer | January 2015 – September 2015

Alfavor Petroleum Corporation, State College | PA, USA

- Worked in Beijing, China on a literature review project for RIPED, research wing of PetroChina.
- Presented Alfavor's technology UNRES3 (demo version) – petroleum engineering software and technical expertise to CNOOC, CUCBM and the associated training
- Liaised with operating companies to procure oil and gas leases.

Pipeline Engineer | June 2011 – October 2014

Bechtel | Houston, Texas, USA

- Developed material requisitions, specifications, and datasheets; evaluated bids & technical proposals; formulated technical tabulations to aid in selection of suppliers; facilitated and participated in kick off meetings.
- Performed wall thickness calculations and reviewed the vendor data / prints associated with various packages.
- Reviewed and issued pipeline drawings including route maps, alignment sheets, plant approach, line diagrams for MET; performed road crossing and buoyancy calculations; plus, reviewed, and approved extrusion calculations for slug catcher, pig receiver / launcher and barred tee.
- Co-ordinated with pipeline construction team to respond to RFIs, NCRs, review and approve field installation procedures.
- Assisted new employees with onboarding procedures, guide / help co-workers to work and perform the job duties as per the required deliverables.
- Provided technical input to HSE, HFE reviews, technical audits and respond to supplier deviation requests (SDDR's) in accordance with the QA/QC norms and standards.
- Developed specifications to assist start up and commissioning group with interlock procedures, pigging operations, Transportation & Logistics (T&L) group for shipment of the various packages.
- Conducted desktop route assessment studies to finalize pipeline route.

Engineering Intern | Summer 2010

Cairn Energy India Pty Ltd. | India

- Performed fracture design runs using Fracpro PT.
- Learned the workflow for software such as PROSPER, MBAL, GAP, GEM, WINPROP, associated field visits to supplement theoretical knowledge on fracturing.

Engineer | March 2009 – July 2009

Indraprashta Gas Limited, New Delhi, India

- Carried out daily operations and maintenance to gas driven engines, compressors, and other operating concerns associated with a CNG station
- Verified sales at CNG stations to mitigate operational losses and black marketing.

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