

Khaled El-Nader, P.Eng



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Professional Summary

Detail-oriented and innovative Professional Engineer with 8+ years of experience managing engineering projects across the energy and pipeline sectors. Proven track record in coordinating cross-functional teams, managing project life cycles, preparing technical documentation, and evaluating engineering proposals. Adept in working with stakeholders in regulated environments and supporting data-driven decision-making.

Education

Bachelor of Science, Chemical Engineering with minor in Petroleum Engineering

University of Calgary, June 2016, **GPA: 3.3/4.0**

Work Experience

Pipeline Engineer | Sun Canadian Pipe Line Ltd. | Hamilton, Ontario | April 2024 – Current

- Lead the end-to-end delivery of high-risk pipeline capital projects, including mainline valve replacements and inline inspection tool runs, ensuring alignment with corporate objectives and HSE standards.
- Plan and direct cross-functional engineering activities in coordination with internal teams and external consultants to ensure seamless project execution.
- Evaluate technical scopes, cost estimates, and contractor work plans to ensure compliance with regulatory frameworks (e.g., CSA Z662) and company specifications.
- Developed project execution procedures, standardized workflows, and review checklists, enhancing schedule control and technical quality across engineering deliverables.
- Prepare and present technical briefings, funding justifications, and progress updates to senior management to support strategic decision-making.
- Successfully delivered a time-sensitive valve replacement project in a live-line, high-congestion environment without safety incidents or regulatory non-compliance.

Project Engineer | Enbridge Gas Inc. | London, Ontario | November 2021 – April 2024

- Managed a portfolio of multi-phase capital projects exceeding \$40M, overseeing design, engineering, procurement, and construction phases in accordance with company and industry standards (ASME, API).
- Directed the preparation of FEED packages, risk assessments, and construction sequencing plans to ensure robust execution strategies and optimal use of resources.
- Oversaw contractor prequalification, tendering, and bid evaluations, ensuring technical and commercial compliance with project requirements.
- Conducted cost tracking, schedule updates, and stakeholder reporting to ensure alignment with approved budgets and milestones.
- Led technical coordination across internal engineering disciplines and external EPCM partners, contributing to efficient resolution of scope gaps and constructability issues.
- Enhanced project delivery through implementation of lessons learned, continuous improvement initiatives, and rigorous quality control protocols.

Distribution Planning Engineer | Enbridge Gas Inc. | Chatham, Ontario | September 2019 – November 2021

- Conducted hydraulic analysis using DNVGL Synergi Gas for pipeline capacity planning.
- Assessed pipelines for retrofits and repairs, ensuring efficient project execution and operational integrity.
- Collaborated with stakeholders across operations, engineering, and marketing to deliver seamless project outcomes.
- Assisted Gas Control and stakeholders in managing pipeline operations.

Pipeline Integrity Engineer in Training | Acuren Group Inc. | Oakville, Ontario | June 2018 – September 2019

- Interpreted inline inspection (ILI) data (EMAT, MFL, CMFL) to assess wall loss, cracking, and corrosion features under ASME B31G and API 579 methodologies.
- Generated fitness-for-service (FFS) reports, identified high-risk anomalies, and recommended mitigative actions to clients.
- Conducted threat assessments and supported direct examination (DE) planning and execution.
- Applied relevant codes and standards, including CSA Z662, for pipeline maintenance.
- Developed comprehensive integrity reports for pipeline corrosion and mechanical damage.

Quality Assurance Engineer | TATA Consultancy Services | Toronto, Ontario | June 2017 – June 2018

- Supported QA/QC coordination for energy sector software, ensuring compliance with technical specs and client documentation standards.

Project Engineer Intern | Enbridge Inc. | Calgary, Alberta | September 2014 – August 2015

- Supported pipeline facility upgrades, reviewed design standards (CSA Z662, ASME B31.4), and assisted in HAZOP studies and pipeline reroute designs.
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Highlights and Skills

- Pipeline Integrity & FFS:** Inline inspection data analysis, fitness-for-service evaluations, and integrity threat management per B31G, API 579.
 - Cost Estimation & AFE Generation:** Experienced in developing accurate cost estimates and generating AFEs for pipeline and facility projects.
 - Hydraulic Simulation Modeling:** Proficient in Synergi Gas, and other tools for process simulation, system optimization, and pipeline hydraulics.
 - Code Compliance:** Strong knowledge of ASME B31.4, B31.8, B31G, CSA Z662; familiar with international best practices and Saudi Aramco specs.
 - Technical Proficiency:** Skilled in interpreting PFDs, P&IDs, fabrication drawings, and utilizing software like GIS, Bluebeam, Power BI, and SAP.
 - Industry Standards:** Well-versed in API standards and pipeline codes (CSA Z662, ASME B31.1, B31.3, B31.4) for compliance and best practices.
 - Material & Equipment Sizing:** Experienced in specifying materials and equipment for pipeline and gas conditioning projects.
 - Contract Management:** Expertise in contractor selection, bidding processes, and contract evaluation for construction and commercial agreements.
 - Communication & Leadership:** Strong verbal and written communication skills, with a collaborative and team-oriented approach.
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Certifications & Additional Skills

- Professional Engineer (P. Eng) designation.
- Advanced proficiency in **MS Office Suite** (Excel, Word, PowerPoint) for data analysis and reporting.
- Competent in **Creaform 3D** for 3D modeling and visualization.