

Vahid Kosari

Saskatoon, SK (Ready to relocate)

☎ 639-597-7459 | ✉ vahid59m@yahoo.com

🌐 [linkedin.com/in/vahid-kosari](https://www.linkedin.com/in/vahid-kosari)

🔧 SUMMARY OF QUALIFICATIONS

Highly motivated energetic Mechanical Engineer, specialized at industrial plant construction, procurement, project troubleshoot and maintenance.

- Skilled in mechanical equipment inspection, piping analysis, and construction procurement.
- Proficient in interpreting industrial blueprints, isometric drawings, Piping & instrumentation Diagrams (P&IDs), and various vendor documentation.
- Strong written and verbal communication skills, capable of collaborating with all organizational levels, regulatory personnel, and the public.
- Proficient in Excel, CMMS, AutoCAD and Revit. (Currently learning [IBM Maximo Application Suite](#))
- Engineer-in-Training (EIT) with APEGS (approval process)

🔧 Professional Experience

Mechanical Engineer, Technical Service

June 2010 – November 2024

[Kavian Petrochemical Complex](#), Bushehr, Iran

Leading petrochemical complex for Ethylene production in Middle East.

- Performed corrective actions and on-stream maintenance of boilers, air, desalination, polishing, DSW units, and storages according to API 510, 570, 573, 653 and ASTMs.
- Provided consultation and technical support for industrial projects for design, construction and commissioning of plant utilities by TQ, prepare drawings and troubleshooting according to ASME (BPVC & B Series) codes, API, ASTMs and engineering principles.
- Conducted mechanical equipment inspections of heat exchangers, towers, furnaces, reactors, boilers and process piping components during construction and operation to resolve issues to ensure in-spec performance and stable production.
- Consulted for material selection of process piping systems by means of PMS, piping line classes, key to steel, mechanical properties of materials and best practices.
- Participated in 8 Major overhauls for the whole equipment and piping systems, according to AMSE PCC, FFS, and API 510.
- inspection of synthetic belts and wire ropes, mobile, gantry and overhead cranes, lift track, hoisting chain blocks for periodic inspection, static and dynamic load test and certificate issuance..

Key Achievements:

- Reduced procurement response times from days to minutes by streamlining workflows.
- Identified work process for maintenance to enhance workflow according to BPMN 2.0.
- My team ensured over 10 years of zero failure due to faulty material, through material assurance, aligned with API 578 and DIN 10204.
- Digitalized documentation of 300+ mechanical systems for RBI platform according to API 581.
- Trained 7 junior engineers over a decade, directly through professional mentorship.
- Stress analysis of piping systems by field observation and analysis that saved the company \$80K+.
- Earned superior learner of the year award of my company.

Revit MEP Modeller Apprenticeship (80 Hrs)

December 2018 - August 2019

[Rosam BIM Group](#), Tehran, Iran

- Learned typical residential HVAC and plumbing systems and boiler plants basics.
- Set up templates, plumbing risers, pipe routing, HVAC ducting and place MEP families.
- Created plumbing sheets, boiler schematics, floor plans and keynotes for construction drawings.
- Prepared exploded views, isometrics, mechanical drawings and models for contractor use.



Junior Technical Inspector

June 2002 - June 2006

[Technical Inspection Services Company \(IRICO\)](#), Shiraz, Iran

- Assisted in construction of mechanical equipment and pipeline according to quality control plans, fabrication sketches (Isometric, P&ID, PFD, Key plan, Vendor packages, PMS 3D view, etc.).
- Supported senior inspectors by field work aligned with industrial safety trainings, demonstrating quick learning and the ability to work independently.
- Contributed to revising original construction drawings and preparing AutoCAD models.

Education

 Bachelor's Degree in Mechanical Engineering – Plant Maintenance (<i>WES-assessed</i>)	2010
 Associate Degree in Mechanical Engineering – Thermofluids (<i>WES-assessed</i>)	2005

CERTIFICATIONS

• CareerNet, Employment Skills Training	SIA, May 2025
• Web Programming with Python and JavaScript	Harvard online, May 2025
• RBI (Risk Based Inspection) with RBI Master	JPC, February 2024
• BPA (Business Process Automation) with Camunda 8	Sharif University, August 2023
• BPM (Business Process Management) with Visual Paradigm	Sharif University, June 2023
• Power BI (Data cleaning and Dashboard design)	KPC, March 2021
• Revit MEP (HVAC & Plumbing)	Rosam BIM, August 2019
• Root Cause Analysis	SPGC, January 2017
• Industrial Valves Selection and Maintenance	PDA, January 2016
• AVEVA PDMS (E3D's ancestor) Training course	RFPC, January 2016
• Fixed Equipment Maintenance	RPC, November 2015
• 5S (Cleaning and organizing the workplace)	Gama, August 2015
• Industrial storage design	Gama, January 2015
• Technical Report Writing	KMD, June 2014
• Leadership Training	PRC, August 2013
• CAESAR II Piping stress analysis	Novin Parsian, August 2011

Safety Trainings

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| • New Worker Readiness | Saskatchewan Safety Council, June 2025 |
| • WHMIS | Saskatchewan Safety Council, June 2025 |

REFERENCES, Available upon request
