TONY MANZO P.ENG.

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OBJECTIVE

Experienced Mechanical Engineer with a strong background in product design, quality assurance, and manufacturing optimization. Proven expertise in SolidWorks CAD/FEA, engineering calculations, and regulatory compliance (ISO 9001, ASME, API). Skilled in leading cross-functional teams, managing engineering operations, and driving process improvements to meet customer and industry standards.

EXPERIENCE

Frontier Valve International Ltd.
QA Manager / Engineering Manager
June 1994 – Present

Product Development & Design:

- Led the design and development of complex valve products, including concept generation, detailed design, FEA analysis, and prototype testing.
- Developed and maintained detailed engineering drawings, BOMs, and other technical documentation.
- Oversaw the entire product lifecycle, from initial concept to final production and customer delivery.
- Designed and validated custom products using SolidWorks CAD and FEA, meeting ASME and API standards for demanding markets like NASA and the nuclear industry.
- Directed engineering operations, including design approvals, process optimization, and regulatory compliance for ISO 9001 and ABSA standards.

Quality Assurance & Control:

- Implemented and maintained a robust quality management system, ensuring compliance with ISO 9001 and other relevant standards.
- Conducted internal and external audits to identify and address quality issues and drive continuous improvement.
- Managed non-conforming material, ensuring timely and effective resolution of quality problems.

Team Leadership & Mentorship:

- Mentored junior engineers and trained production staff on new processes, industry standards, and quality control procedures.
Led cross-functional teams in the implementation of process improvements and the resolution of technical challenges.

EDUCATION

University of Alberta
2001-2009
Faculty of Engineering
Completed coursework to obtain P. Eng. Completed on a part-time basis while working at Frontier full-time.

NAIT
1992-1994
Honours diploma in Mechanical Engineering Technology

KEY SKILLS

Software: Solidworks 3D CAD & FEA, MS Office Suite, LibreOffice, Windows OS, Linux Ubuntu, Visual Studio Code, Python, C++, HTML, CSS

Standards: ASME Section IX, ASME Section VIII Division 1, ASME Section VIII Division 2, ASME B31.3, API Standards, ISO 9001

Methods: Machining, Forging, Casting, Welding, Laser Cutting, Water Jet Cutting, 3D Printing