

TONY MANZO P.ENG.

P 780-446-2729

E mr.tony.manzo@outlook.com

A Edmonton, AB

W www.tonymanzo.ca

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 Design & Development:

- **Designing products** and preparing/maintaining **design outputs** (e.g., drawings, BOMs).
- Conducting **SolidWorks FEA analysis** and performing **engineering calculations**.
- Initiating and overseeing **design reviews** and **verifying/validating designs**.
- Preparing and submitting **design plans for ABSA approval** (Pressure Equipment Safety Authority).
- Ensuring compliance with **ASME and API standards** (ASME IX, VIII Div. 1 & 2, B31.3).
- Oversaw designs for **new markets**, including **NASA and the nuclear industry**.

Engineering Change & Documentation Control:

- Approving **design plans, drawings, and revisions**.
- Preparing and approving **engineering change requests (ECRs)**.
- Identifying and approving **special processes** (e.g., welding, machining, forging).
- Issuing and maintaining **engineering, operating, and production procedures**.
- Coordinating **document control activities** and maintaining the **part numbering/serial number system**.

EDUCATION

University of Alberta

2001-2006

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