

ENGINEER: MECHANICAL

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EDUCATION:

1981 Bachelor of Science, Mechanical Engineering
West Virginia University, Morgantown, West Virginia

EXPERIENCE:

August 2006 to Present **Engineering Design & Testing Corp., Hartford, Connecticut**
Consulting Engineer and District Engineering Manager. Damage assessment of mechanical and process systems, including repair/replacement recommendations. Failure analysis of mechanical and process equipment related to gross overload, corrosion, off-design operation, and operator error. Recommendations for materials of construction for various chemical and refining process equipment.

August 1990 to July 2006 **ChemTech Consultants, Pittsburgh, PA**
Vice President of Engineering. Chief Engineer responsible for management and technical review of engineers and designers providing detailed engineering for steel, chemical, and refining clients. Performed failure investigations of machinery in the steel and process industries and provided replace/replace recommendations to insurance and legal clients.

Senior Project Engineer. Project Engineer responsible for management and oversight of all engineering associated with the installation of projects in the chemical and steel industry. Performed detailed mechanical and process design on projects involving hot metal machinery, steel processing equipment, pumps, steam turbines, compressors, and pressure vessels.

January 1982 to July 1990 **Chevron-Texaco, Pascagoula, Mississippi**
Project Engineer. Responsible for planning and executing major refinery unit maintenance turnarounds for the FCC, Crude, Hydrocracker, and Hydrogen Units. Provided guidance on repairs to pressure vessels, rotating equipment, heat exchangers, boilers, and storage tanks. Performed detailed engineering design on capital projects including development of piping and instrument diagrams, piping specifications, design of pressure vessels, and specification of various process equipment including pumps, compressors, steam turbines, heat exchangers, and fired heaters.

PROFESSIONAL ORGANIZATIONS:

American Society for Mechanical Engineers (ASME)
ASM International (ASM)
National Association of Fire Investigators (NAFI)
National Fire Protection Association (NFPA)

REGISTRATIONS:

Registered Professional Engineer in Connecticut (#25874)
Registered Professional Engineer in New Hampshire (#12150)
Registered Professional Engineer in Rhode Island (#8763)
Registered Professional Engineer in Maine (#11376)
Registered Professional Engineer in Massachusetts (#47036)
Registered Professional Engineer in Vermont (#8988)
Registered Professional Engineer in New York (#085055-1)
Registered Professional Engineer in Pennsylvania (#PE042186R)
Registered Professional Engineer in West Virginia (#011402)
Registered Professional Engineer in Ohio (#E-57092)
Registered Professional Engineer in Kentucky (#19286)
Registered Professional Engineer in Alabama (#18586)
Registered Professional Engineer in Illinois (#062-050753)
Registered Professional Engineer in Texas (#91413)
Registered Professional Engineer in Virginia (#0402 023060)
Registered Professional Engineer in Washington State (#41710)
Registered Professional Engineer in Mississippi (#9709)
Registered Professional Engineer in Louisiana (#33560)
Registered Professional Engineer in Arkansas (#7787)

National Council of Examiners for Engineers and Surveying Record (#10426)

SPECIALIZED TRAINING:

Piping Design and Stress Analysis, A.S.M.E
Pittsburgh, Pennsylvania, March 21, 1992

Pressure Vessel Design and Analysis, A.S.M.E
Pittsburgh, Pennsylvania, April 22, 1993

Failures, Failure Prevention, and Repairs of Pressure Vessels, A.S.M.E.
Boston, Massachusetts, June 19, 1995

A.S.M.E. B&PV Code: Section IX Welding and Brazing, A.S.M.E.
Boston, Massachusetts, June 10, 1996

Repairs and Alterations of Boilers and Pressure Vessels, A.S.M.E.
Boston, Massachusetts, June 9, 1997

Practical Welding Technology, A.S.M.E.
Orlando, Florida, January 28, 1998

Basic Gas Turbine Technology, International Gas Turbine Institute
Pittsburgh, Pennsylvania, May 24, 1999

Principals of Failure Analysis, ASM International
Pittsburgh, Pennsylvania, June 22, 2000

Confined Space Entry, Compliance Solutions
Charlotte, North Carolina, August 2006

National Fire, Arson & Explosion Investigation Training Program, NAFI
Sarasota, Florida, August 10, 2006

Corrosion, ASM International
Pittsburgh, Pennsylvania, October 2006

PUBLICATIONS:

“Knowledge and Use of Heat-Treating Procedures Employed to analyze the Cause of a Pair of Aluminum Piston Fractures” with Tim A. Jur, Journal of Failure Analysis and Prevention, Volume 10, Issue 1, February 2010; also presented at the Materials Science & Technology 2009 Conference, October 2009 in Pittsburgh, Pennsylvania.