

EDUCATION

- 2012 **Bachelor of Science, Engineering Technology**
Temple University, Philadelphia, Pennsylvania
- 2000 **Associate of Applied Science, Manufacturing Technology**
Colorado Mesa University, Grand Junction, Colorado

EXPERIENCE

- October 2020
to Present **Engineering Design & Testing Corp.**
Cherry Hill, New Jersey
- Consulting Engineer*
Conduct root cause analysis, scope of damage, and value of loss investigations for projects involving mechanical systems and components. Identify and quantify physical damage, interpret sequence of damage, and characterize damage existing prior to the loss. Conduct on-site examinations of machinery, equipment, and processes, and create technical reports documenting investigations, including calculations, analyses, and findings.
- August 2004
to October 2020 **Holtec International**
Camden, New Jersey
- Principal Mechanical Engineer*
Led mechanical team developing a small modular nuclear reactor. Created and reviewed detailed drawings and technical reports documenting mechanical calculations, analyses, and ASME BPVC Section III and Section VIII code compliance for nuclear power plant vessels, heat exchangers, piping, and structures.
- Design Manager*
Created and reviewed calculations and drawings for equipment designs for nuclear and commercial power generation applications. Provided reviews verifying designs were in accordance with applicable industry codes and standards, client specifications, and project calculations.
- Project Engineer*
Created design calculations and fabrication drawings for ASME BPVC Section III and Section VIII pressure vessels and heat exchangers for power generation applications. Provided shop and field engineering support to investigate and resolve equipment fabrication, installation, and operational issues at commercial and nuclear power plants.
- Senior Mechanical Designer*
Prepared fabrication drawings and 3-D models of steam surface condensers, heat exchangers, and pressure vessels. Performed equipment inspections and witnessed equipment testing and commissioning activities at manufacturing

facilities and job sites. Created engineering drawings for analysis, manufacturing, procurement, quality control, sales and marketing, and patenting activities.

September 2001
to August 2004

Action Manufacturing Company
Philadelphia, Pennsylvania

Mechanical Designer

Designed precision safety and arming mechanisms for ordnance products used by the U.S. Armed Forces. Validated design functionality by means of destructive and non-destructive testing. Designed machines and fixtures which minimized human exposure to explosive products during manufacturing, assembly, and/or inspection.

December 2000
to August 2001

WSI Global
Grand Junction, Colorado

Mechanical Drafter

Created detailed fabrication drawings of machined parts, equipment frames, guards, and weldments for high-speed folding and gluing equipment for the food and beverage packaging industry.

June 1999
to November 2000

Walsh Environmental Scientists and Engineers
Grand Junction, Colorado

Drafter

Created abatement and demolition drawings for projects involving removal of hazardous materials. Prepared site maps and drawings for environmental site assessments.

REGISTRATIONS and CERTIFICATIONS

Registered Professional Engineer in Delaware (#25835)

Registered Professional Engineer in Maryland (#56709)

Registered Professional Engineer in New Jersey (#24GE05401600)

Registered Professional Engineer in New York (#103929)

Registered Professional Engineer in Pennsylvania (#PE091568)

Registered Professional Engineer in Texas (#143476)

Registered Professional Engineer in Virginia (#0402062879)

Registered Professional Engineer in West Virginia (#24419)

National Council of Examiners for Engineers and Surveying Record (#13-921-61)

PROFESSIONAL ORGANIZATIONS

American Society of Mechanical Engineers (ASME)

ASM International (ASM)

National Association of Fire Investigators (NAFI)

National Fire Protection Association (NFPA)

Temple University College of Engineering, Industrial Advisory Committee Member, 2012 to 2018