

EXPERIENCE

October 2020
to Present

Engineering Design & Testing Corp.
Cherry Hill, New Jersey

Consulting Engineer

Conduct investigations of incidents involving mechanical components, equipment, and systems. Investigations include the collection of data – through the examination, research, and testing of evidence – and the analysis of data. Findings are developed and evaluated, and reports are prepared documenting the investigation and findings. Services provided include determining the root cause of an incident, assessing the scope of damage, and/or evaluating the repair/replacement costs.

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.

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- 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.

EDUCATION

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

REGISTRATIONS & CERTIFICATIONS

- Registered Professional Engineer in Connecticut (License No. 35887)
Registered Professional Engineer in Delaware License No. 25835)
Registered Professional Engineer in Maryland (License No. 56709)
Registered Professional Engineer in Massachusetts (License No. 58575)
Registered Professional Engineer in New Jersey (License No. 24GE05401600)
Registered Professional Engineer in New York (License No. 103929)
Registered Professional Engineer in Pennsylvania (License No. PE091568)
Registered Professional Engineer in Rhode Island (License No. 15238)
Registered Professional Engineer in Texas (License No. 143476)
Registered Professional Engineer in Virginia (License No. 0402062879)
Registered Professional Engineer in West Virginia (License No. 024419)

PROFESSIONAL AFFILIATIONS

- American Society of Mechanical Engineers (ASME)
ASM International (ASM)
National Fire Protection Association (NFPA)
Temple University College of Engineering, Industrial Advisory Committee Member, 2012 to 2018