

B.S. in ENGINEERING
Philadelphia University
GPA: 3.4

PROFESSIONAL EXPERIENCE:

BECHTEL POWER, Watts Bar Nuclear Plant, TN

Aug 2011-present

Field Engineer- Mechanical Instrumentation & Controls

ENGINEER IN TRAINING
State of Tennessee
Passed exam Fall 2011

Lead a group of field engineers to support safety related tubing, valve and pipe support installations; providing technical guidance and quality surveillance to craft personnel.

Programs:

AutoCAD
Revit Architecture
Revit MEP
SolidWorks
eQuest
RISA
SketchUp
Adobe Photoshop
Microsoft: Word,
Powerpoint, Excel,
VBA, Visio, Project

- Resolve existing design issues by coordinating changes with engineering managers and appropriate quality organizations.
- Create and modify Process Flow Diagrams and other engineering drawings to reflect as-built configuration.
- Generate isometric layouts for ASME section III and B31.1 piping installations.
- Design mechanical pipe supports to ensure tubing is adequately supported for seismic and thermal loading.
- Draft isometric CAD drawings to be implemented as plant configuration control.
- Investigate installation and component deficiencies, determine extent of condition and propose resolution to the Corrective Action Team.
- Developed electronic training guide for new field engineers.
- Collaborated with construction and engineering managers to organize a more efficient work process that will allow us to successfully attain project milestones.

Field Engineer- Construction Testing*Abilities:*

Six Sigma
Technical Writing
Site Planning/Surveying
Project Presentation
3D Modeling
Sketching/Rendering
Web Design

Ensure all plant systems are tested to appropriate standards, prior to construction completion, without compromising the integrity of piping and components.

- Assembled pressure test packages to inspect piping, tubing and components under the appropriate ASME III or B31.1 codes and the project Quality Program.
- Directed tests for the Component Cooling Water system I&C sense lines.
- Calculated testing parameters to meet the criteria defined in the applicable code.
- Researched a variety of heat exchangers, pumps, and valves to determine the max allowable pressure of any internal parts during a hydrostatic test.
- Implemented an information database using Excel VBA to optimize the test package preparation process and provide an automatically updated task scope.
- Performed final, in-house reviews to increase test package acceptance rate from less than 50% to 98%.

LOWER MERION SCHOOL DISTRICT, Philadelphia, PA

May 2009- June 2011

Engineering Intern

Assisted three professional engineers representing the school district during construction of two new LEED certified high schools.

- Reviewed and updated a working set of construction drawings and documents per architectural supplemental instructions and addendum.
- Completed multiple field surveying reports including data collection, analysis, and documentation using Excel, and AutoCAD.
- Managed HVAC control setpoints to provide optimal system efficiency without compromising interior comfort.