





Brad D. Thomas, P.E.

**CAPITAL
PROJECTS**









bthomas@capitalepc.com 

678-469-3230 

Commitment

I've spent my career around industrial equipment starting with operations and maintenance in the US Navy to design and project management of large and small industrial projects throughout my engineering career. I am always looking for a new engineering challenge.

Skills

-  Project Management
-  Project Engineering & Engineering Management
-  Mechanical Piping Engineering
-  Construction Management
-  Scope Development & Definition
-  Feasibility Studies
-  Pressure Vessel Design
-  Process Design

Selected Projects/Experience

Principal Engineer + Vice President

- While operating on the Senior Leadership Team, performed multiple functions including strategy, business development, client relations, engineering supervision and project management functions.
- Led multi-discipline design and project teams consisting of engineers, designers and other professionals on several capital projects across multiple industry partners.
- Has a thorough understanding of how engineering projects flow and how effective execution is essential to project success combined with extensive experience managing project schedules and budgets.
- Supported project through construction with onsite assistance and RFI responses
- Reviewed and approved Process & Instrumentation Diagrams
- Engineering experience ranging from reactive chemical equipment and processes to power generation.

Project Manager of \$50MM Ethanol Fermentation Waste Energy Project

- Led design team of 30+ professionals including multi-discipline engineers, designers, procurement, and administrators for design of Power boiler and feedstock supply system. Boiler was powered using wet-cake and stover.
- Generated and Maintained Project Schedule and Budgets
- Led design review meetings and managed workflow between departments
- Provided drawing reviews for the various disciplines

Senior Project Engineer of \$250MM DOE Renewable Energy Project

- Duties: Primary engineering contact with the Department of Energy to assist with technical challenges of the project, specified equipment, sizing and specifying power piping, assisted project manager to define project timeline and budgets, coordination with engineering disciplines for construction support, construction supervision
- Performed Pipe Stress Analysis for Boiler Feedwater Lines, High Pressure and Temperature Steam Lines, Turbine Supply
- Provided Troubleshooting assistance on equipment throughout the plant and during commissioning.
- Generated Bid Tabulations for equipment purchases.

Prior Project & Client References

John Thomas | Manager of Mechanical Engineering Hydro-Chem
770-345-2222

Ken Chacey | Project Manager Ameresco Federal Solutions
803-730-7564

Education

Georgia Southern University
2001-2006 Statesboro, GA
Bachelor of Science, Mechanical
Engineering Technology

United States Navy
1997
Engineman "A" School

Selected Training

AWS Certified Weld Inspector (CWI)

ASME BPVC Section VIII-1 Pressure
Vessel Code

ASME BPVC Section I Power Boilers

ASME B31.1 Power Piping

Dublal - Finite Element Analysis of
Non-code Vessels

Caesar II - Pipe Stress Analysis

NACE - Corrosion Mechanisms of
Deaerators

Selected Projects/Experience Continued

Senior Project Engineer | Mechanical Engineering Lead of \$125MM Bagasse Power Plant Retrofit

- Redesigned boiler and associated pressure parts including water walls, generating bank, downcomers, along with specifying economizers, boiler feedwater pumps, deaerators, air preheaters soot blowing systems.
- Specified mechanical conveying equipment including drag and screw conveyors, tubulators, mechanical collectors, etc.
- Generated Client QC Manual for boiler manufacturers and power piping including material check and verification requirements, documentation review, shop cleanliness requirements, owner stop work holds, etc.
- Operating as the owner's engineer, inspected international manufacturing facilities to ensure compliance with owners QC specifications and drawings. Significant time spent in China.

Mechanical Process Engineer for various projects ranging in size

- Generated and revised Process and Instrumentation Diagrams.
- Participated in HAZOP Meetings
- Sized control valves and pressure safety valves on steam systems
- Sizing and specification of rotating equipment

Engineman Petty Officer Second Class US Navy

- Work Center Supervisor for Auxiliaries Division Duties included: Maintenance and operations of various shipboard systems including HVAC, Distillation Plants, High Pressure Air Compressors and Dryers, Low Pressure Air Compressors, Boilers, and various pumps and heat exchangers and hydraulic systems.
- Complete tear down and rebuilt various pumps including centrifugal, rotary vane and hydraulic piston styles.
- Awarded the Navy Achievement Medal for outstanding performance

Projects Executed With:

