

**Clayton George, PE**

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**Summary:**

**As a degreed Mechanical Engineer with a Master's Degree in Business Administration** and extensive **experience in the industrial design and construction industry**, have specific skills in the conceptual detailed engineering design, development, project management, contracting, and procurement of projects in the oil and gas as well as the marine industry. Spent considerable time on the shop floor early in career and am knowledgeable in how an efficient fabrication facility operates. Possess expertise in structural finite element analysis, computational fluid dynamics, process design/engineering, 3-D modeling, 2-D drafting, and developing project proposals. As a current engineering manager, can work well with people and delegate assignments efficiently.

**Education:**

University of Louisiana at Lafayette

- Bachelors degree in Mechanical Engineering
- Masters degree in Business Administration

**Certifications:**

- Registered Licensed Professional Engineer

**Core Competencies:**

- Design & Drafting Department Management
- Process Design
- Structural Finite Element Analysis, 3-D & 2-D drafting
- CFD Fluid Flow Analysis
- Project Management and Contracting
- Basic Accounting Experience
- Knowledgeable with ASME Code, ABS, US Coast Guard, DNV and Lloyds of London regulatory bodies

**Work Experience:****Practical Engineering Solutions, LLC (2010-Current)**

*Lafayette, LA*

As the owner / principle engineer, assembled design / engineering team for mechanical design projects in the oil and gas industry. Specialized in engineering and design of ASME pressure

vessels, process piping, P&ID's, lifting skids / baskets (DNV 2.7-1, API RP 2A, Shell SEPCO, BSEN 12079, etc.), UN tanks, tool designs, CFD fluid flow analysis, general structural analysis, and much more. Installed a complete 3D design department capable of generating complete detailed fabrication drawings for all of the above mentioned projects.

Was responsible for and successfully executed the following projects:

- **Walter Oil & Gas (30) Building Helideck Package** - design and construction of 30 unit steel building modular offshore accommodation package
- **Flange Cuff Patent Design** – design, testing and successful implementation of the flange cuff tool used in hot bolting flanges for on and offshore applications

### **HB Rentals (2009 – 2011)**

*Broussard, LA*

As the **Technical Division Manager** supervised a 6 man engineering / design department responsible for the design and project management of steel offshore living quarter modules built to ABS, US Coast Guard, and DNV Certifications. Structured the engineering, design, and document control department to comply with ISO-9000 standards. Helped transition the design department from a 2 dimensional drafting software (Auto-cad) to a 3 dimensional modeling software (Inventor). Proficiently performed structural finite element stress analyses for environmental loadings of modular steel buildings.

Was responsible for and successfully executed the following projects:

- **Dolphin (30) Building Helideck Package** - design and construction of 30 unit steel building modular offshore accommodation package
- **EOG (15) Building Package** – design and construction of 15 unit fiberglass building modular offshore accommodation package

### **DPS-Delta (2008 – 2009)**

*New Iberia, LA*

As a **Project Engineer / Drafting & Design Manager** managed a 5 man team of drafting designers while simultaneously completing the detailed design, development, project management, equipment specification, contracting, and procurement of ABS classed production skid mounted packages in the oil and gas industry. Proficiently performed skid structural finite element analysis with Solidworks and RISA, ASME pressure vessel calculations with both Compress and PV Elite, and at times assisted with 3-D modeling and 2-D drafting for certain projects when the design team was overloaded. Generated package proposal quotations for clients on potential projects.

Was responsible for and successfully executed the following projects:

- **MMHE / MISC, Ruby FPSO Glycol Regeneration Package** - design and construction of an ABS certified 13 MMSCFD glycol gas dehydration package

- **MMHE / MISC, Ruby FPSO Electrostatic Coalescer** – design and construction of an ABS certified 54,744 BBLS / day electrostatic coalescer
- **Bumi Armada, Oyo FPSO Glycol Regeneration Package** – design and construction of an ABS certified 66 MMSCFD glycol gas dehydration package
- **Bumi Armada, Oyo FPSO Electrostatic Coalescer** – design and construction of an ABS certified 60,000 BBLS / day electrostatic coalesce
- **Petrotechna Desalter** – design and construction of a 80,000 BBLS / day electrostatic desalter
- **Petrotechna Indirect Line Heater** – design and construction of (2) 0.69 MMBTU / hr indirect line heater

#### **Berard, Habetz, & Associates (2006 – 2008):**

*New Iberia, LA*

As a **Project Engineer** computed several Finite element analysis on structural designs for ABS classed marine vessels as well as several civil design structures. Involved in developing and drafting Process and Instrumentation Diagrams for Carbon Black facilities as well as drafting detailed structural designs for these same plants. For over a year was solely contracted out as a Project Engineer on sight to DPS-Delta and successfully executed the following projects:

- **British Gas, Poinsettia Fuel Gas Package** –design and construction of a 0.3 MMSCFD fuel gas treatment package
- **Petrofac / Khalda, Glycol Regeneration Package** – design and construction of (2) 120 MMSCFD glycol regeneration packages
- **SBM Atlantia, Thunderhawk Glycol Regeneration Package** – design and construction of 70 MMSCFD glycol regeneration package
- **Petro-techna International, Desalter & Line heater packages** –design and construction of (4) 60, 000 BBLS/Day crude oil desalter and (2) 18 MMBTU/hr line heater packages

#### **Superior Offshore (Jan 2006 – Oct. 2006):**

*Amelia, LA*

As a **Project Engineer** was involved in the design, development, project management, procurement, and equipment specification of oil and gas skid mounted production packages. Due to limited drafting resources, carried out design and drafting tasks as well as ran ASME pressure vessel calculations for these skid mounted production packages. Also contributed to the design and performed finite element analysis of ABS classed marine equipment used in deep water saturated diving systems.

Effectively completed the following projects:

- **Khurmalla Dome 100 MMSCFD Glycol Regeneration Package** – purchased all materials, coordinated fabrication with shop, created project schedules, assisted with project drafting, ran ASME vessel calculations

- ***Paloma Water Skimmer Package*** – purchased all materials, coordinated fabrication with shop, created schedules, coordinated project shipping logistics, handled project invoicing
- ***Enterprise Natural Gas 10" Pipeline Hurricane Repair*** – coordinated fabrication with shop, created project schedules, conducted project drafting, coordinated project shipment to site location

#### **Delta Compression (2004 – 2006):**

*Krotz Springs, LA*

As a **Project Manager** responsibilities included procuring all project materials, logistics, performing ASME pressure vessel calculations, generating natural gas compressor sizing calculations, equipment specification, and writing project proposals. Prior to attaining degree in Mechanical Engineering, worked in the fabrication facility as a welder's assistant as well as a mechanics assistant in building production and natural gas compressor packages used in the oil and gas industry.

Successfully executed the following projects:

- ***Taylor Energy 80 MMSCFD Natural Gas Compressor*** – project managed, purchased all materials, coordinated fabrication with shop, created project schedules, assisted with project drafting, ran ASME vessel calculations
- ***BP 90 MBTU Indirect Fired Line Heater*** – project managed, procured materials, and coordinated fabrication with shop
- ***Pemex Sinan Separator & Fuel Gas Treatment Packages*** - project managed, procured materials, and coordinated fabrication with shop