FREDERICK CHARLES LOCHTE
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Cell: 830-491-8743

Mr. Lochte has three years of experience in mechanical design, fabrication, and testing. He is proficient in SolidWorks, NEI/Nastran, Visual Analysis, and OrcaFlex®.

EDUCATION

BS Mechanical Engineering University of Texas at San Antonio, 2013

EMPLOYMENT HISTORY

2013-Present: ETA International Inc., Mechanical Engineer

2011 - 2013: ETA International Inc., Mechanical Engineer Intern

AFFILIATIONS

American Society of Mechanical Engineers
Tau Beta Pi Engineering Honor Society

PROJECT EXPERIENCE

Mr. Lochte's project experience includes the following categories.

Single Point Mooring Hose

OrcaFlex® analysis of subsea hose strings for CALM Buoy installations and floating hose strings for FPSO installations.

Flexible Fiber Reinforced Pipe

Development of Data Acquisition, Pressure and Temperature Control Systems for long duration testing

Design, Setup, and Operate Mid Scale Permeation Test System capable of:

- 110°C +/- 2°C
- 725 PSI +/- 1%

Design, fabrication, and operation of pipe test systems capable of:

- 40,000 lbs Tension
- 4-point crush loads of 14,700 lbs

Fatigue design, and fabrication of a dynamic pipe test system capable of 100 Million Cycles:

- 455,000 lb Tension,
- 50,000 ft-lb Bending Moment
- 30 degree Bending Angle
- 10,0000 psi Pressure

Structural Design

Design and conduct NE/Nastran® analysis of structural steel frames, bulkheads, clevises, and pullheads.

Pressure Vessel Design

Designed and tested aluminum pressure vessels using formulas from the "ASME Boiler and Pressure Vessel Code." The pressure vessels are capable of:

- 440 PSI Design Pressure
- 418 PSI Rated Pressure
- 110°C Maximum Operating Temperature

Project Management

Currently acting as Project Manager for a Mid Scale Permeation Test for a flexible pipe manufacturer. The most current project details are listed below:

- Project Duration: 9 months
- Project Budget: $196,620