

ROBERT LOU BROWN IV

Email: rlbrown@etainc.org

Cell: 956-467-6781

Mr. Brown joined ETA International in 2018 after graduating from the University of Texas at San Antonio. He has 3.5 years of experience in mechanical design, testing, and instrumentation. He is proficient in SolidWorks, OrcaFlex®, Autodesk Nastran FEA, and ProgeCAD.

EDUCATION

BS Mechanical Engineering

University of Texas at San Antonio, 2018

EMPLOYMENT HISTORY

2018-Present: ETA International Inc., Mechanical Engineer

AFFILIATIONS

American Society of Mechanical Engineers

Tau Beta Pi Engineering Honor Society

PROJECT EXPERIENCE

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

Flexible Pipe / Risers

Installation and set-up of project instrumentation (PT's, LVDT's, Inclinometers, Strain Gauges, RTD's, thermocouples, etc.):

- Obtaining/checking scale factors and offsets.
- Monitor instruments on DAQ
- Design & fabricate tool for measuring OD of pipe through test

Operation of dynamic pipe test system capable of:

- 580,000 lbs of Tension
- 50,000 ft-lbs of Bending Moment
- 30 degrees of Bending Angle
- 10,000 psi Pressure

Material acquisition and test set-up for high energy burst testing and permeation testing.

Single Point Mooring Hose

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

FPSO to Conventional Tanker Tandem Mooring

OrcaFlex® analysis of a floating hose string for an FPSO offloading to a conventional tanker, involving various tanker sizes.

Floating Hose Testing

Conducted full-scale hydrostatic and vacuum testing on crude offloading hoses.

Pressure Relief Mechanism

Designed, manufactured, and tested a low pressure relief mechanism for hydrocarbon gas storage tanks.