



**enautix**

engineers and analysts

## Company Profile

### Houston Office

18000 Groeschke Road F13

Houston, Texas 77084

[www.enautix.com](http://www.enautix.com)



Structural analysis, rigid body analysis,  
finite element analysis, and floating structures.

*We find answers*

## **Enautix is a team of engineers and designers providing solutions for the offshore industry**

- From a concept for a new design, we can take it to the installation phase, or start with a 25 year old structure in need of a life extension and provide the detailed reassessment information needed to answer the tough questions.



- Experienced with the complete lifecycle of the offshore structure, including transportation, structural analysis and inplace conditions.
- Specialists in rigid body analysis and finite element analysis using ANSYS™, SACST™, and MOSES.

Offshore Engineering Services  
Design and analysis for fixed and floating structures

Offshore Construction Services  
Loadout, seafastings, etc.

Transportation Services  
Load securement, both highway and marine

**Headquartered in the West Houston Energy Corridor, we offer  
both domestic and world wide service.**



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- Enautix provides a design and structural analysis service for inplace, transportation, and installation phases of:
  - Fixed offshore structures
  - Floating offshore structures
  - Mooring systems
- Software support includes:
  - SACSTM, design and analysis software package for offshore structures
    - Collapse, Fatigue, and Earthquake
  - MOSES
  - ANSYS™, finite element analysis
- Our capabilities extend to the design of subsea structures to include: templates, manifolds, protection structures and pipeline end termination structures.
- We provide a service to manage the structural model for "life of structure" integrity monitoring.
- Our transportation engineering capability includes fatigue issues on long duration transportations, the primary structure seafastening design and also the important internal seafastening requirements.

- Enautix has a state of the art quality system in place, to ensure reliable and accurate engineering conforming to the latest inspection codes and standards.



- Our AutoCAD design staff brings a over 50 years of drafting experience to every project; we can produce a full set of structural specification and fabrication drawings.



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- Enautix can provide general offshore construction support for fixed and floating structures:
  - Load Out plans and work instructions for barges and vessels
  - Seafastening design
  - Offshore lifting and rigging studies
  - Mooring design
  - Scope of Work, Method Statement development, and execution plans
  - Structure decommissioning
- Specifications and fabrication standard AutoCAD™ drawings are produced to provide a complete package.
- Enautix can provide on-site assistance to the client during the fabrication, load-out, and installation phases if required, including special lifting studies and lifting arrangements for equipment installation and removal offshore.



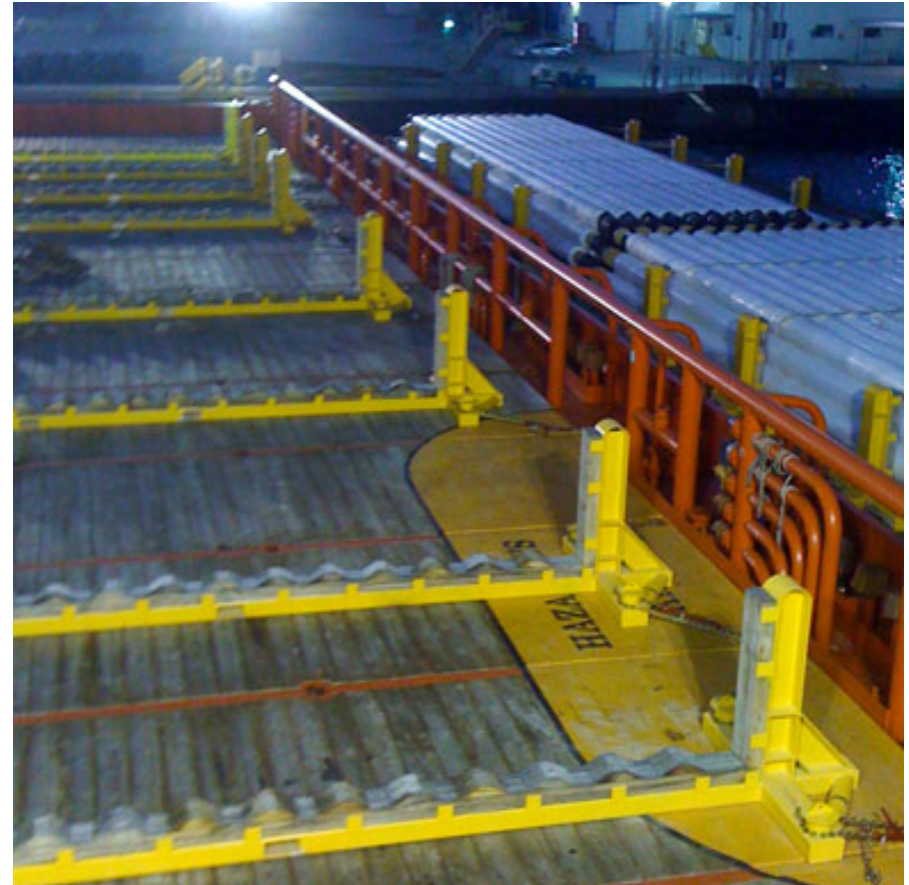




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- Proven load securement designs for transporting large structures by ship and by truck
  - Highway Transportation
  - Marine Transportation
- Highway Load Securement:
  - Chain arrangement
  - Rack Design
- Barge transport
  - Load Out plans and work instructions for barges and vessels
  - Seafastening design
  - Lifting and rigging studies



**Barge and supply vessel securement racks**



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	TLP	SPAR	FPSO	Semi- submersible	Compliant Tower	Fixed Structures	Subsea/ pipeline
<b>Loadout</b>	Marco Polo topsides	Horn Mountain topsides			Tambua-Landana	Sinan Field, Cannonball Field jkt and deck, Bullwinkle	
<b>Transportation</b>	Marco Polo topsides	Horn Mountain topsides	Kizomba B manifold modules		Tambua-Landana	Ebouri Field, Sinan Field, Cannonball Field jkt and deck, Atlantis Field module, Kapok Field, Peregrino jkts and decks	Perdido piles & risers
<b>Launch</b>					Hinged barge development	Peregrino jkts	
<b>Floatover</b>						Corocoro deck	
<b>Installation</b>		Horn Mountain topsides, Tahiti	Kizomba B manifold modules, Su Tu Den modules	Jack and St. Malo	Benguela Belize, Tambua-Landana	Panyu Field China, Trinmar platforms, Alba B2 jkt	
<b>Floatation and Upending</b>		Genesis hull			Tambua-Landana	Peregrino jkts	
<b>Docking</b>					Tambua-Landana	Corocoro deck and jkt	
<b>Inplace</b>		Horn Mountain topsides	Pazflor modules, Kizomba B manifold, Fluminense topsides, Girassol topsides and hull	OPTI-EX living quarters & helideck		Trinmar platforms, Alba B2, GA 227 "A"	Thunder Horse subsea module
<b>Spectral Fatigue</b>	Marco Polo, Magnolia, Blind Faith, and Prince topsides	Horn Mountain topsides				Ebouri Field, EC 139, Trinmar platforms, HI 161 "C", EC 271 "I", HI 268a "A", Alba B2	
<b>Earthquake</b>						Trinmar platforms	
<b>Impact</b>				OPTI-EX helideck		Peregrino jkts, NGL Extraction platform	
<b>Pushover</b>						North Rankin, SP 62	
<b>MOSES</b>	Marco Polo, Magnolia, Blind Faith and Prince topsides	Horn Mountain topsides	Fluminense topsides, Girassol topsides and hull		Hinged barge development	Bullwinkle, Ebouri Field, Sinan Field, Atlantis Field module, Kapok Field, and Cannonball Field, Peregrino, and Corocoro jkt and deck	
<b>ANSYS</b>						Peregrino launch runners and joint rings	
<b>Field Architecture</b>		Tahiti	Zafiro Producer	Jack and St. Malo			
<b>Structural Design Drawings</b>	Prince, Magnolia, Morpeth	Horn Mountain, Great White	Enterprise			Salsa, Enchilada, OilBird, EC 1st CP-4, GP-11, BS-14, Independance Trail, DPC-4, Pogo-Benchamas Block Sta. 26	



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- Curtis Owens, PE, President
  - c\_owens@enautix.com
- Joshua Olson, PE
  - j\_olson@enautix.com
- Brenton Owens, PE
  - b\_owens@enautix.com
- Alan Cattell, Project Manager
  - a\_cattell@enautix.com

**Enautix, Inc.**

**18000 Groeschke Road F13  
Houston, Texas 77084**

**(281)579-1913   (281)579-1982(fax)**