

CURRICULUM VITAE

G. Fred Liebkemann IV, P.E.
Date of Birth March 30th, 1963

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Education

University of Miami, Coral Gables, FL
Bachelor of Science Degree, Mechanical Engineering, 1986

Louisiana State University
Completed 1.5 years post graduate study in Mechanical Engineering

Licenses

Registered Professional Mechanical Engineer by the State Board of Registration of Louisiana,
No. 25480

Membership in Professional Organizations

Member, National Society of Professional Engineers
Member, American Society of Mechanical Engineers
Member, American Society of Safety Engineers
Member, American Council of Engineering Companies
Member, Society of Automotive Engineers
Member, American Petroleum Institute SC2 Offshore Structures Committee
(Specification for Offshore Pedestal Mounted Cranes)
Member, American Petroleum Institute 2D-2 Committee
(Training Programs for Crane Operators, Riggers, and Crane Inspectors)

Occupational History

April 2000 - present:	Professional Engineer in private practice
January 1999 - April 2000:	Senior Design Engineer, SEAREX Inc.
March 1996 - January 1999:	President, Liebkemann & Montestruc Engineering Company
May 1994 - March 1996:	Vice President, ELM Engineering Company
January 1989 - May 1994:	Senior Engineer, M. E. Software Associates Inc.

Design Experience

The following are examples of the types of equipment designed.

Materials & Heavy Handling Equipment Designed

Offshore pedestal cranes	Aframe cranes
Traveling boat lifts	Manned submersible retrieval systems
Stiffleg cranes	Drill pipe & riser handling systems
Pipe laying equipment	Leapfrog crane systems
Heavy lift cranes	BOP cranes
Knuckle boom cranes	Winches
Overhead traveling cranes	Slings
Spreader bars	Davits
Blocks	Jacks
Ship launching systems	Passive heave compensators

Oilfield Equipment & Structures Designed

Drill floors	Quarters buildings
Drilling derrick conversions	Pipe racks
V-door ramps	Mooring equipment
Mud processing equipment	Helidecks

Vessels and Marine Equipment Designed

Jackup vessels and legs	Drilling barges
Offshore research vessels	Main propulsion systems
Jacking systems	Steering systems
Piping systems	Paddlewheels
Pumping systems	

Personnel Access Equipment Designed

Scaffolds	Gangways
Stairs	Portable & fixed ladders
Railings & toeboards	Fixed personnel platforms
Safety nets	Personnel hoists
Ramps	Motorized manlifts
Personnel baskets	

Pressure Vessels Designed

Liquid storage tanks	High pressure piping
Hydraulic cylinders	

Failure Analysis Experience

Determination of the location and mode of failure of products and structures through examination, materials testing and computation. Examples of failure analyses conducted include:

Oil pipeline rupture	Crane collapse
Marine propulsion failure	Gearing system failure
Jackup vessel leg failure	Wire rope failure
Shackle failure	Compressor failures – Air, methane & heliox
Diesel engine failure	Winch failure

Safety Engineering Experience

Design of safety devices including machinery guards, protective interlocks, capture devices, ventilation systems, fire protection and fire fighting systems, lifesaving equipment and alarms.

Incorporation of the provisions of local, state, and national safety standards into the design of equipment and structures and into the procedures for use of equipment and structures.

Inspection and testing of existing industrial facilities, equipment, and vessels for compliance with applicable safety standards and regulations.

Determination of conditions and circumstances responsible for equipment failures, damage, and industrial accidents, and corrective measures needed to prevent failure or accident reoccurrence.

Crane Operation Qualifications

Qualified in accordance with API RP 2D 6th ed. as
Hydraulic Crane Operator
Hydraulic Crane Inspector
Fiction Crane Inspector
Rigger

Equipment Operation Qualifications

Forklift Operator
IPAF Registered Boom & Vertical Lift Operator

Clients served include firms in the following fields

The oil & gas drilling and production industries
The oilfield service & supply industries
The shipbuilding industry
The construction industry
The marine salvage industry
The insurance industry
The legal profession
Manufacturers of heavy handling equipment