

# RESUME of Thomas R. Dyer, P.E.

2547 Perkins Lane West, Seattle, Washington 98199

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Office: / Cell: (206) 618-8632 \* Fax: (206) 285-1707 \* E-mail: [TomDyer@HeadwayMarine.com](mailto:TomDyer@HeadwayMarine.com)

## HEADWAY MARINE LLC, Seattle, WA

1996 -Present

### *President*

Maritime and heavy construction consultant, and expert witness regarding naval architecture and marine engineering; ship and boat construction, repair, and operation; marine operations; and shipyard practices, operations, and economics.

- *Registered Professional Naval Architect and Marine Engineer,*
- *US Coast Guard Licensed Captain*
- *Serves as expert witness in disputes involving:*
  - *marine operations, rules of the road, seamanship and navigation,*
  - *maritime standards, practice, and regulatory compliance,*
  - *vessel construction, and shipyard economics and practice,*
- *Represents shipyards, vessel owners, and seamen; both plaintiffs and defendants; in industries including commercial fishing, tug and barge, shipbuilding, pleasure craft, cruise ships, ferries, and ocean shipping.*
- *Testifies before judges and juries regarding:*
  - *wrongful death;*
  - *equipment failure;*
  - *vessel sinkings, collisions, and capsizings;*
  - *seamen's injuries;*
  - *shipyard negligence and contract disputes,*
- *Manages engineering and construction projects for naval architects, shipyards, and contractors*
- *Advises civil engineers and contractors regarding floating structures ancillary to dams, served on international panel of experts*
- *Provides engineering and technical advice to a wide variety of clients*

## VESSEL OPERATION AND SEAMANSHIP EXPERIENCE

1951-Present

### *Owner, Operator, Observer, and Crew Member*

Owns, operates and maintains 47' power boat (26 tons) on Puget Sound and Inside Passage	2000-Present
Owned and operated 28' cruising sailboat (5 tons) on Columbia River and Puget Sound	1953 – 2000
Trained as General Line Officer, U.S. Navy, including midshipman cruise aboard a destroyer	1957 – 1962
Assisted in operation of family owned 45' power boat on Columbia River and Puget Sound	1953 – 1962
Served as crew on 38' sailboat on voyage from Astoria, OR to Los Angeles and Honolulu	1959 - 1959
Operated variety of small powered and sailing vessels on Columbia River and its tributaries	1951 - 1962
Sails as observer on sailboats, fish boats, tugs, pilot boats, naval vessels, and merchant ships.	1957- Present

## ETALCO, Inc., Everett, WA

1997 - 2002

### *Vice President, Engineering*

In charge of engineering for a heavy lift and transportation company operating on a worldwide basis.

- *Supervised engineering and shipment at sea of heavy and oversized cargos*
- *Managed variety of heavy lift projects*

## GIANNOTTI CORPORATION, Tacoma, WA

1994 - 1996

### *Corporate Vice President*

Marketing, estimating, planning, scheduling and production engineering, in established shipyard and engineering divisions, and new shipyard, vessel operations and pier-side repair divisions.

- *Served as Professional Engineer in Charge for total reconstruction of 310' car ferry*
- *Briefly managed AKWA Shipyard division, maintained ferries and fish processors*

## UNION BAY SHIPBUILDING CORPORATION, Seattle, WA

1986 - 1993

### *President, Chief Executive Officer and Owner*

Oversaw shipyard employing up to 100 craftsmen with annual revenue of \$3.5 million.

- *Hands on engineering and management of wide variety of vessel repairs and conversions*
- *Pioneered use of computer cut steel in a number of vessel lengthening and sponsoring projects*
- *Became very familiar with the fishing industry, including trawlers, crabbers, and factory trawlers*
- *Converted a number of vessels to trawling and/or fish processing*
- *Re-powered and maintained fishing vessels, tugs, and high speed ferries*

**THE GLOSTEN ASSOCIATES, INC., Seattle, WA****1984 - 1985*****Vice President / Principal***

Consultant in naval architecture, management and shipyard economics to a wide diversity of corporate and public clients.

- *Served as arbitrator and expert witness in shipyard economics and shipyard practices disputes*
- *Supervised the Project Management of the re-commissioning of 4 four barges and four tugs*
- *Supervised the Engineering Review of construction drawings for a research vessel*
- *Conducted comprehensive evaluation of Alaskan cable laying operation*

**FOSS SHIPYARD, Seattle, WA****1976 - 1984*****General Manager***

Managed commercial ship repair yard with \$10 million in annual revenue, employing 75-200 craftsmen.

- *Transformed in-house maintenance facility to a commercial ship repair yard.*
- *Provided principal engineering input to Foss Maritime management*
- *Became very familiar with the tug and barge industry*
- *Maintained, re-powered, and modified a great number of tugs, barges, and fishing vessels*

**TODD SHIPYARDS CORP., Seattle, WA****1974 - 1975*****Production Control Manager***

Managed all production planning and scheduling.

- *Program manager for construction of two 490' self-unloading barges.*

**MARCO SEATTLE, Seattle WA****1969 - 1973*****New Construction Manager***

Began as naval architect and estimator, promoted to management of new construction program

- *Responsible for construction of 25 tugs, fish boats, and oil skimmers from 58 to 108 feet in length.*

**UNITED STATES NAVAL ACADEMY, Annapolis, MD****1965 - 1969*****Officer-Instructor (Retired as Lieutenant Commander, USNR)***

Taught marine engineering, ship stability, and ship structures

- *Participated in development of new naval architecture and marine engineering curriculum.*
- *Project officer for the design of a 380-foot ship model towing tank.*

**ASTORIA MARINE CONSTRUCTION CO., Astoria, OR****1955 - 1962*****Craft Helper***

Worked as shipwright, machinist, rigger, painter, and warehouseman in family owned shipyard, building and repairing wooden and steel ships.

**ACADEMIC EDUCATION**

*Master of Science, Naval Architecture and Marine Engineering, Massachusetts Institute of Technology*  
*Fulbright Scholar in Naval Architecture, Technical University, Delft, The Netherlands*  
*Bachelor of Science, Mechanical Engineering, Naval ROTC, Stanford University*

**CONTINUING EDUCATION**

*Captain's License – 100 Ton Masters and OUPV, United States Maritime Academy, Seattle*  
*The Management Program, Graduate School of Business, University of Washington*  
 Trained as an arbitrator by the North Pacific Dispute Resolution Center.  
*Avoiding Design Professional Liability, Dept of Architecture, University of Washington*  
*Fundamentals of Accounting, Graduate School of Business, University of Washington*  
*Quality Assessment and Quality Planning, Washington State University Seminar*  
*Industrial Hydraulics, Vickers Technical Training Center*  
*Operation and Maintenance of EMD Diesel Engines, General Motors Training Center*  
*Basic Marine Electrical Practice, American Boat and Yacht Council*

**PROFESSIONAL REGISTRATION**

Professional Engineer, Naval Architecture & Marine Engineering  
 Washington State #12929

**US COAST GUARD LICENSES**

Master 50 Ton Inspected Vessel, Unlimited Passengers, Inland Waters  
 Operator 100 Ton Uninspected Passenger Vessels, 6 Passengers, Inland Waters  
 Sailing and Commercial Assistance Towing Endorsements

### **EXPERT WITNESS QUALIFICATIONS**

Qualified as Expert Witness, King County (WA) Superior Court  
Qualified as Expert Witness, U.S. District Court, Western District of Washington  
Qualified as Expert Witness, Multnomah County (OR) Circuit Court

### **MEMBERSHIPS**

Society of Naval Architects and Marine Engineers (Chairman, Pacific Northwest Section 1981-1982)  
Columbia River Maritime Museum (Trustee, 1984-1996)  
Seattle Marine Business Coalition (Founding Member, President, 1985-1987)  
American Boat and Yacht Council  
North Pacific Fishing Vessel Owners Association Vessel Safety Program  
Recreational Boating Association of Washington  
Center for Wooden Boats  
Classic Yacht Association  
Wooden Boat Foundation  
Society of Port Engineers  
Propeller Club  
Wooden Yacht Racing Association (Founding Member, 1991-1999)  
Naval Architects for Fishing Vessel Safety (1991-1993)  
Port of Seattle Waterfront Development Panel (1988-1989)  
Seattle City Planning Commission (1987 –1989)  
Toastmasters International (1965-1969)  
Sigma Xi, Scientific and Engineering Research Honorary (1963-1969)  
Various Non-profit, Political, and Church Boards and Committees

### **PUBLICATIONS**

*PNW Maritime Companies Aid Salmon Escapement*, Pacific Maritime Magazine, July 2005

*Noise Control on Diesel Tugs – a Sequel; Marine Technology*, Society of Naval Architects and Marine Engineers, October 1983, Co-author with B. Lundgaard

*Noise Control on Diesel Tugs; Marine Technology*, Society of Naval Architects and Marine Engineers, October 1973, Co-author with B. Lundgaard

*Conceptual Design of a High Performance Towing Tank for the U.S. Naval Academy*, 15<sup>th</sup> American Towing Tank Conference, 1968, Co-Author with R. Compton and B. Johnson

*Turbulence Stimulation on Yacht Models*, 15th American Towing Tank Conference, 1968

*Boundary Layer Transition and Separation on Yacht Models*, S.M. Thesis, MIT, 1966

### **PERSONAL INTERESTS**

Cruising and Maintaining a 47' wooden powerboat built in 1938