

NATE FREDERICKSON, P.E.

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IMPACT
Naval Architects

OBJECTIVE

Contribute to the success of technically challenging marine design, engineering and construction projects.

SKILLS PROFILE

- Project & technical leadership, experience and ability to serve in a well-rounded advisory role.
- Broad background in a variety of naval architecture disciplines (high speed craft, fast ferries, towing vessels, yachts, barges, composite, aluminum & steel construction), experience with design office & production environments.
- Efficient structural design via practical and advanced analytical methods (including finite element analysis).
- Regulatory expertise: Classification Society rules & approval processes, USCG, federal & international regulations, SOLAS, positive working relationships with responsive contacts within regulatory agencies.
- Mechanical systems design.
- Proficiencies in 3D modeling, 2D CAD drawing preparation & presentation, Microsoft Excel & Word.

EDUCATION

- B.S. Naval Architecture & Marine Engineering, Webb Institute of Naval Architecture, 1996.

EXPERIENCE

Principal Naval Architect, Hockema & Whalen Associates

2013 — 2017

- 122' ABS Classed SOLAS Ocean Tug: Newbuild project lead engineer.
- 101' ASD Escort Tug *Gretchen Dunlap*: Newbuild tug propulsion and towing equipment foundation engineering, systems engineering & stability.

Owner/Principal Naval Architect, Nate Frederickson Design LLC

2007 — 2012

Select sample of projects:

- Zyvex LRV-17m Long Range Patrol Craft: Structural engineer and technical advisor for high speed, lightweight, long range carbon composite patrol craft.
- 96m Yacht: Naval Architecture (structure, stability, regulatory) for preliminary design phase.
- Technical proposal for 23' aluminum, waterjet propelled USCG vessel.
- Contra-rotating propeller design for prototype torpedo.

Lead Engineer, Kvichak Marine Industries

2006 — 2007

- Lead engineer for construction of high speed aluminum passenger catamaran hulls for the San Francisco Bay Area Water Emergency Transportation Authority.
- Lead engineer for proposal for environmentally friendly hybrid passenger ferry.

Contract Naval Architect, Delta Marine Industries

2002 — 2006

- Naval architect for design and construction of large yachts (120'-237' LOA): Composite, aluminum, and steel structural engineering, development of hull lines, intact & damage stability analysis, Lloyds Register Classification.

Contract Naval Architect, Various

2000 — 2002

- Subcontract Naval Architect for Harbor Marine Group, Fisker-Anderson & Whalen, The Glosten Associates, Elliott Bay Design Group, and Hage-Marine.
- *M.V. Bay Breeze*, 97' high speed passenger catamaran: Engineering of conversion from waterjet to propeller propulsion (with Hage-Marine in 2002 and follow-up support for Charlie Walther in 2011-2012).

Naval Architect & Development Engineer, US Marine/Bayliner

1996-1998 & 1999-2000

- Planing hull design and testing, engineering, and CE/EU regulatory compliance of production recreational boats.

Naval Architect, Herbert Engineering

1998-1999

- Configuration of computer-based loading instruments for large oceangoing vessels.