

## EVAN HEADLEY

---

### PROFESSIONAL EXPERIENCE

2025 - Present

Consulting Engineer and Surveyor, MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC.  
Areas of specialization include forensic engineering, human factors, vehicle design and operations, structural surveys, naval architecture and project management.

2022- 2025

Naval Architect | Advance Machinery Systems Integration c/326, NSWC Philadelphia Division, Philadelphia, PA

- Proposed, captured, planned, and managed over \$2 million in power system integration feasibility and risk studies for the Fleet Energy Research and Development Program and Office of Naval Research bringing the technology from a TRL 4 to TRL 7 with plans to reach TRL 9 by 2029.
- Lead cross-organization project teams of 5-15 members to deliver Unmanned Surface Vessel (USV) indicative designs. Facilitated a bridge between HM&E and Naval Architect groups. Communicated status updates and presented design reviews through multiple design iterations with the program management office.
- Developed test plans, safety and risk assessments, and maintenance procedures for use in pre-test Mission Readiness Panels (MRP) at the Power and Energy Dynamic Assessment Laboratory (PEDAL) Land Based Test Site (LBTS).
- Used shipboard operational data and global operating conditions with power and propulsion system optimization modeling to develop energy efficient operating guides for shipboard use.
- Evaluated and realigned the MOEs, MOPs, and requirements of a performance specification to allow for an enhanced and converged ship design space.
- Provided HM&E SME support for fleet table top exercises and wargames in conjunction with the program management office and OPNAV for use in requirements development.
- Performed validation of Key Performance Parameters (KPPs) and Key Operational Parameters (KOPs) of delivered vessels for the program management office and OPNAV.

2021

Naval Architect Intern | SMART Scholarship Program, NSWC Philadelphia Division, Philadelphia, PA

- Evaluated power and propulsion technologies that can be combined to improve the efficiency and reliability of power generation systems operated in USVs
- Developed a USV design synthesis model in a multi-objective trade space environment used in current surface platform design.

2019

Mechanical Engineering Intern, Viking Yachts Company, New Gretna, NJ

- Completed mechanical installation of engines, generators, running gear, gyro-stabilizers, liquid and HVAC systems.
- Performed quality control inspections and completed pre-delivery repairs on mechanical systems.

## EDUCATION AND PROFESSIONAL QUALIFICATIONS

25 Ton Master Captain's License, In Progress 2025

Project Management Professional (PMP), In Progress 2025

Acquisition Professional Membership, July 2025

Massachusetts Institute of Technology Professional Summer – Surface Ship Combat System Design and Integration Certificate, August 2024

Master of Operational Energy (MOE), Naval Postgraduate School, Monterey, CA, March 2025:

- Unmanned Autonomous Persistence Certificate
- Refuel Logistics Certificate
- Directed Energy Certificate

Bachelor of Engineering in Naval Engineering, Stevens Institute of Technology, Hoboken, NJ, May 2022

## Memberships

Society of Naval Architects and Marine Engineers (SNAME)  
American Society of Naval Engineers (ASNE)

### Awards

Science, Mathematics, and Research for Transformation (SMART) Scholar, Department of Defense (DOD), 2020-2022

Languages: English

Nationality: US Citizen

Address: 620 Shrewsbury Avenue  
Tinton Falls, NJ 07701

Phone: (732) 224-1133 (office)  
(908) 568-7862 (mobile)  
Email: [ehadley@martinottaway.com](mailto:ehadley@martinottaway.com)