

Cody Stansky

codystansky.com

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Naval Architect and Composites Specialist with 8+ years in hydrofoil and composite structure design. Skilled in composite manufacturing, structural analysis, and rapid iteration CFD. Led DFMA of composite assemblies and served as the primary expert in composite design, manufacturing, and quality control processes. with a passion for optimizing manufacturing processes through automation and innovative solutions.

Education

Webb Institute / B.S. in Naval Architecture and Marine Engineering / 2012 - 2016, Glen Cove, NY

- Thesis: *A Fluid Structure Interaction Analysis of Vertical-Lift-Producing Daggerboards*
 - 2016 International Hydrofoil Society Mandles Prize Winner

Skills

- Composite Manufacturing: Pre-preg, infusion, co-curing, open molding, compression molding, GD&T quality control, process optimization, integrated assemblies, tolerance analysis, high quality CAD and Engineering drawings, low volume series manufacturing, standardized development processes
- Structural Design: Integrated Assemblies, Laminate design, stiffness optimization, bonding, regulatory compliance
- Software: Solidworks, Flow 5, Star CCM+, Rhino 3D, Grasshopper, Python, Custom built tools (Parametric wing modeling and analysis pipeline)
- Analysis: RANS CFD, Panel codes, airfoil optimization codes, Linear isotropic FEA, Fluid-structure interaction

Experience

Fliteboard / Head of Hydrodynamics / 2022 - 2025, Remote / Byron Bay Australia

- Led DFMA of composite assemblies with integrated electronics for electric-powered hydrofoil wingsets using Solidworks and Rhino 3D.
- Led composite design, manufacturing, and quality control processes including GD&T and FAI, serving as the primary expert in these divisions.

Inde Foil Co. / CEO / 2020 - 2022, Alameda, Ca

- Designed and launched novel hydrofoil products for watersports, developing advanced wing assembly and control features through rapid iteration.
- Built core team, led brand and product design, managed manufacturer networks, fundraising, budgeting, and marketing, culminating in successful acquisition.

DarkMatter Hydrofoils. / CTO / 2019 - 2020, Alameda, Ca

- Led bid for 2024 Olympic Class Kitefoil, designing wing sets for World Sailing certification.
- Conducted structural analysis and laminate design for wingset and mast.

DarkMatter Engineering / Founder 2019 - 2022 Alameda, Ca

- UC Berkeley Ocean Engineering Seminar, March 2019 & March 2022: "Stability Analysis & Hydrodynamic Design of an eFoil"

Morrelli & Melvin / Naval Architect / 2016 - 2019, Newport Beach, Ca

- Designed wing sail and hydraulic control systems for wing-sailed catamaran.
- Conducted structural design and Coast Guard compliance for HH Catamarans.
- Designed composite structures for high-performance catamarans.

New England Boatworks / Composite Technician / 2013 - 2016, Portsmouth, RI

- Fabricated Gunboat 60 daggerboards and C-Foils using pre-preg carbon fiber.
- Laminated and installed primary structural components during Rambler 88 construction.