ÖMER FARUK KULU

Marine Design Engineer · Yacht Design & Naval Architecture

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Marine design engineer who took two projects, a 9.95 m motor yacht and a luxury personal watercraft, from first concept sketch to production-ready engineering before completing his degree. Combines naval architecture fundamentals with an industrial-design approach: Rhino surfacing, manufacturable CAD, ISO-oriented design documentation, and reverse engineering of hull and propeller point-cloud data. Shipyard-trained at Damen Yachting and Sirena Marine. In parallel, runs a successful freelance practice as a Top Rated designer on Upwork, delivered 10+ engineering and product design projects to clients across Europe and North America.

SIGNATURE PROJECTS

9.95 m Motor Yacht — Concept to Production-Ready Design NAVALTEK · 2024

- Exterior Design
- Hull Surfacing
- GA
- Production CAD
- Visualization
- ISO Documentation

Personal Watercraft (PWC) — Full Product Development Cycle NAVALTEK · 2024

- Exterior Styling
- Ergonomics
- Tooling
- GRP Design
- Production Surfacing

NAVALTEK

Hull & Propeller Reverse Engineering — Point Cloud to Analysis-Ready CAD

- Converted 3D-scan point clouds of hulls and propellers into faired, watertight NURBS models ready for CFD and hydrostatic analysis.

PROFESSIONAL EXPERIENCE

3D Concept Designer / Naval Architect — NAVALTEK, Istanbul Dec 2024 – present

- Lead designer on production-oriented marine projects: motor yachts, PWCs, and refit programs (see Signature Projects).
- Built a rapid concept pipeline combining hand sketching, AI-assisted visualization, and Rhino surfacing — cutting concept-review turnaround from weeks to days.
- Freelance design work for international clients alongside company projects, covering concept design, 3D modeling, and rendering.

Yacht Outfitting Engineering Intern — Damen Yachting, Antalya Aug 2024 – Sep 2024

- Supported outfitting and piping engineering on YS5302, YS5303, YS5304, and SX6001 yacht support vessels, applying Lloyd's Register class rules.
- Modeled equipment and pipeline routing in CADMATIC within Damen's production engineering environment.

Design Engineering Intern — Sirena Marine, Bursa Aug 2023 – Sep 2023

- Engineered the GRP lamination plan for the Sirena SY88 hardtop and composite settlement plans for the SY78 and SY68 in Rhinoceros.

Production Intern — Torlak Shipyard, Istanbul Aug 2022 – Sep 2022

- Hands-on exposure to ship repair and steel production processes on the shipyard floor.

EDUCATION

BSc Naval Architecture & Marine Engineering — Yildiz Technical University, Istanbul Expected Jan 2027

- Coursework: Yacht Design, Ship Design, Main Engine Design, UAV Principles. Designed a fast attack craft on an NPL-series hull; torpedo-launcher designer for the university AUV team.

SKILLS & CERTIFICATIONS

Design & CAD	Rhinoceros (expert) · Siemens NX · SOLIDWORKS · Fusion 360 · CADMATIC · Blender
Marine	Yacht exterior design · Hull surfacing & fairing · GRP/composite engineering · Outfitting & piping · Class rules (Lloyd's Register) · Reverse engineering / point clouds
Process	Design for manufacturing · ISO-oriented design documentation · Product development · Rendering & visualization · Python · JavaScript
Languages	English (professional) · Turkish (native)
Certifications	Engineering & Product Design Processes · Rapid Prototyping / 3D Printing Specialization · Siemens NX Essentials · Python for Data Science & AI