

Design Engineering Internship – MasterCraft Boat Company

Location: Vonore, TN

Department: Design Engineering

Reports To: Engineering Manager – Design Engineering

Duration: Summer 2025 (Full-Time Internship)

About MasterCraft

MasterCraft Boat Company is the industry leader in premium performance towboats. For over five decades, MasterCraft has defined innovation in design, engineering, and craftsmanship—delivering best-in-class performance, quality, and on-water experiences.

Our Design Engineering team is responsible for developing every component and system that makes a MasterCraft a world-class product—from structural design to complex mechanical integrations and styling execution.

Position Summary

The **Design Engineering Intern** will play an active role in developing and refining new MasterCraft products and systems. This hands-on position blends creative thinking with practical engineering, offering exposure to the full product development cycle—from concept and 3D modeling to prototype validation and production support.

Interns will work alongside experienced design engineers to understand how design intent, manufacturability, and customer experience come together to create a high-performance boat.

Key Responsibilities / Exposures

- Participate in the **development, design, and release of new components and systems** for future MasterCraft models.
 - Create and revise **3D CAD models and assemblies** using Siemens NX.
 - Support **design validation activities**, including fit checks, prototype builds, and functional testing.
 - Conduct **design of experiments (DOE)** and **failure mode investigations** for mechanical or functional systems.
 - Assist in **rapid prototyping** and proof-of-concept builds to evaluate new ideas.
 - Collaborate with manufacturing and quality engineering to ensure **design feasibility and process integration**.
 - Participate in **Engineering Change Requests (ECRs)** and documentation to release new or revised parts.
 - Prepare technical drawings, presentations, and documentation for design reviews and supplier communication.
 - Gain exposure to **cross-functional collaboration** between design, manufacturing, quality, purchasing, and testing groups.
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Qualifications

- Pursuing a **Bachelor's degree in Mechanical Engineering, Design Engineering, or related field**.

- Proficient in **3D CAD modeling** (NX or SolidWorks preferred).
- Strong mechanical aptitude and attention to detail.
- Ability to analyze problems, think creatively, and communicate clearly.
- Comfortable in both office and shop environments; willingness to work hands-on with boats and components.
- Excellent teamwork, communication, and organizational skills.
- Prior exposure to marine, powersports, or automotive design is a plus.
- **Passion for boating, product design, and mechanical systems is highly desired.**

Why Join MasterCraft

- Work directly on **next-generation boat designs and systems**.
- Gain **hands-on experience** with cutting-edge tools and technologies.
- Collaborate with talented engineers, designers, and builders.
- Build foundational skills in **product development, validation, and manufacturing integration**.
- Be part of a team shaping the **future of performance boating**