

Harrison Wilkerson

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SUMMARY

Senior **piping systems** designer with 10 years of progressive marine and heavy manufacturing experience. Develops **component designs**, layouts, sketches, calculations, 3D models, 2D drawings, Pipe Details, and **Virtual Work Instructions** for complex fabrication environments. Advanced capability with AUTOCAD, SHIP CONSTRUCTOR, NAVISWORKS, and Siemens NX supports accurate design packages and practical production outcomes. Works independently on nonroutine issues involving routing, **P1 Weld Joints**, material availability, manufacturability, interfaces, and contractual specifications. Coordinates design criteria with engineering, manufacturing, tooling, material, and planning teams, using clear communication during reviews and issue resolution. Provides lead worker guidance through task assignment, design checking, orientation, and coaching for junior designers. This background supports dependable marine design delivery, buildable documentation, and steady collaboration across demanding manufacturing programs.

EXPERIENCE

Lead Piping Designer

June 2023 - Present

Gulf Meridian Marine

Mobile, Alabama

Leads piping **design packages** for complex marine fabrication zones, guiding model development, drawing verification, issue resolution, and junior designer support from engineering criteria through production release.

- Led marine piping packages from engineering criteria through production ready models and drawings.
- Checked **SHIP CONSTRUCTOR** models and AUTOCAD drawings for interfaces, dimensions, **Pipe Details**, and fabrication readiness.
- Used NAVISWORKS reviews to resolve routing conflicts with structure, equipment, and access requirements.
- Created **Siemens NX** content for **Virtual Work Instructions** supporting fabrication and installation activities.
- Resolved **P1 Weld Joints**, material constraints, manufacturability concerns, and contractual design requirements.
- Assigned selected junior work, checked deliverables, and coached designers on practical modeling methods.

Senior Piping Designer

April 2020 - May 2023

Pelican Coast Fabrication

Pascagoula, Mississippi

Developed marine module and machinery space design packages, translating criteria into coordinated layouts, models, drawings, calculations, and production focused documentation.

- Developed piping layouts, component details, sketches, and **calculations** for constrained marine machinery spaces.
- Converted **design criteria** into coordinated **AUTOCAD** drawings and SHIP CONSTRUCTOR models for fabrication.
- Checked dimensions, material callouts, Pipe Details, joint requirements, and approved model consistency.
- Coordinated **manufacturing**, tooling, material, and planning needs around sequencing and **material availability**.
- Investigated **NAVISWORKS** clashes and presented supported routing options during multidisciplinary design reviews.
- Guided newer designers through checking practices and complex piping details during active releases.

Piping Designer

July 2018 - March 2020

Bayline Vessel Systems

Gulfport, Mississippi

Produced vessel compartment drawings and model updates under established **engineering** criteria, supporting routing studies, material coordination, discrepancy correction, and buildable releases.

- Produced AUTOCAD piping drawings and **SHIP CONSTRUCTOR** updates for vessel compartments.
- Prepared **rough layouts** and **sketches** that compared routing alternatives before detailed model development.
- Verified drawing and model consistency, correcting documented discrepancies before formal checking.
- Coordinated **material** and component information with planners and **production** representatives for buildable releases.
- Researched design questions through drawings, specifications, and calculations, then documented findings for review.
- Resolved installation interfaces with adjacent disciplines through clear technical coordination and follow up.

Junior Piping Designer

September 2016 - June 2018

Delta Works Marine

New Orleans, Louisiana

Created and revised marine piping documentation under senior review, building practical skill in modeling, drawing control, routing studies, material references, and design review support.

- Created and revised piping drawings under senior review for **marine manufacturing** documentation.
- Updated 3D model geometry from approved markups and checked associated 2D drawing requirements.
- Prepared **layouts**, sketches, and dimensional checks for component placement and pipe routing.
- Reviewed material references and drawing notes before submitting packages for checker review.
- Recorded design comments, dispositions, and revisions for assigned documentation packages.
- Built **AUTOCAD** and **SHIP CONSTRUCTOR** proficiency through controlled design and document practices.

PROJECTS

Marine Machinery Space Routing Review 2024

Reviewed dense piping routes through model coordination, drawing checks, access studies, and fabrication focused documentation for marine machinery spaces.

Virtual Work Instruction Development 2025

Created Siemens NX content supporting Virtual Work Instructions for fabrication and installation activities, connecting design intent with practical production steps.

LEADERSHIP & AWARDS

- Recognized as a lead technical resource for piping model checks, drawing reviews, and junior designer support.
- Selected to resolve nonroutine marine design issues involving routing, weld joints, materials, and manufacturability.
- Entrusted with production ready design packages requiring coordination across engineering, manufacturing, tooling, material, and planning teams.

EDUCATION

Associate of Applied Science in Drafting and Design Technology

Delgado Community College GPA: 3.5

Coursework: Computer aided drafting, piping design, technical drawing, manufacturing documentation

2016
New Orleans, Louisiana

CERTIFICATIONS

- AUTOCAD Advanced Drafting Certificate 2021
- Siemens NX Design Essentials Continuing Education 2024

TECHNICAL SKILLS

- **Computer Aided Design:** AUTOCAD, SHIP CONSTRUCTOR, Siemens NX
- **Model Coordination:** NAVISWORKS, 3D Models, 2D Drawings
- **Piping Documentation:** Pipe Details, Piping Layouts, Component Designs
- **Design Development:** Rough Layouts, Sketches, Calculations
- **Virtual Work Instructions:** Siemens NX, VWI, Fabrication Instructions
- **Marine Manufacturing:** Marine Modules, Machinery Spaces, Vessel Compartments
- **Weld Joint Design:** P1 Weld Joints, Joint Requirements, Weld Details
- **Production Coordination:** Manufacturing, Tooling, Planning
- **Material Coordination:** Material Availability, Material References, Component Information
- **Design Verification:** Drawing Checks, Model Checks, Discrepancy Resolution
- **Engineering Criteria:** Contractual Specifications, Design Criteria, Approved Markups
- **Manufacturability Review:** Fabrication Readiness, Buildable Releases, Routing Access

SKILLS

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|-------------------------|-----------------------------|------------------|---------------------|
| • Piping systems design | • Siemens NX | • P1 Weld Joints | • Calculations |
| • AUTOCAD | • Virtual Work Instructions | • Pipe Details | • Manufacturability |
| • SHIP CONSTRUCTOR | • 3D Models | • Layouts | • Design checking |
| • NAVISWORKS | • 2D Drawings | • Sketches | |

PROFESSIONAL AFFILIATIONS

- Marine manufacturing design community participant focused on buildable piping documentation and practical coordination.
- Technical peer resource for piping model reviews, drawing checks, routing questions, and junior designer guidance.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST