

Jenshou LLC


Capability Summary

Jenshou LLC
3274 McLeod Road
Walterboro
SC 29488
USA

www.jenshou.com

Telephone: 843-538-1400

Email: Sonny@Jenshou.com

	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024			 JENSHAU	Revision -
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Index

1. Corporate Description1-1

2. Company Overview2-3

 2.1 Fabrication, Build and Services.....2-3

 2.2 Project Management.....2-4

 2.3 Engineering.....2-4

3. Past Performance.....3-5

 3.1 Recent Projects3-6

 3.1.1 Mobile Melt Consolidation System3-6

 3.1.2 MARS (Mobile Approach Radar Shelter).....3-6

 3.1.3 Three-Unit MTRACON (Military Terminal Radar Approach Control Facility) ..3-6

 3.1.4 Air Traffic Control Shelter.....3-7

 3.1.5 Three-Unit Shelter Build.....3-7

4. Personnel Qualifications4-8

 4.1 Management.....4-8

 4.2 Project Manager4-8

 4.3 Engineering.....4-8

 4.4 Production Personnel.....4-8

 4.4.1 Welding.....4-8

 4.4.2 Cleaning / Blasting.....4-9


 4.4.3 Painting.....4-10

 4.4.4 Shop Space for Fabrication, Assembly and Testing4-11

 4.4.5 Material Handling Equipment, Cranes, Forklifts4-11

 4.4.6 Tools, Tooling & Fixtures4-13

5. Examples of Container Modifications.....5-14


	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU	
Author	S. Miles	Jan. 2024				 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024					Page ii
Approved	S. Miles	Jan. 2024					

List of Figures

Figure 1-1, ISO 9001:2015 Certificate of Compliance 1-1
 Figure 1-2, Jenshau office facility 1-2
 Figure 1-3, Jenshau office facility 1-2
 Figure 2-1, 3D Model of a modified container 2-4
 Figure 2-2, Finite Element Analysis Results 2-5
 Figure 4-1, Aluminum welding 4-9
 Figure 4-2 – Container blasting prior to painting 4-9
 1. Figure 4-3 – Container blasting prior to painting 4-10
 Figure 4-4 – Example container painted 4-10
 Figure 4-5 – Example container painted 4-11
 Figure 4-6 – Container top loader 4-12
 Figure 4-7 – Container top loader and mid-sized forklift 4-12
 Figure 4-8 – Example Trolley frame for moving containers 4-13
 Figure 5-1, Prefabricated Housing Unit 5-14
 Figure 5-2, Prefabricated Housing Unit 5-15
 Figure 5-3, Prefabricated Housing unit 5-15
 Figure 5-4, Prefabricated housing unit 5-16
 Figure 5-5, Prefabricated housing unit 5-16
 Figure 5-6, Example of container modification – roof, sidewall and doors 5-17
 Figure 5-7, Design build ladder and railing system 5-17
 Figure 5-8, Design build ladder and railing system 5-18

List of Tables

No tables.

	Name	Date	Revised	Date	Jenshau Capability Summary  JENSHAU	JENSHAU
Author	S. Miles	Jan. 2024				Revision -
Checked	R. Stanley	Jan. 2024				Page iii
Approved	S. Miles	Jan. 2024				

1. Corporate Description

Jenshau LLC is a small business located one half mile off Interstate 95 in Walterboro, SC, between the ports of Charleston and Savannah.

Jenshau specializes in the design, fabrication and finishing of purpose-built steel structures. The steel structures range from shipping container modifications, configurable mobile communication shelters for civilian, government, and defense applications.


The company is a privately owned HUBZone Small Business with 11 full-time employees.
 NAISC code: 332311
 Duns number: 089693536
 Cage code: 7H8W9

Company qualifications:

- ISO 9001:2015 Certification for quality control
- Structural welding certification
- Certification to handle and dispose of all refrigerants as well as the purchase of any and all HVAC units and equipment and the ability to meet ASHRAE Standards
- South Carolina licensed modular building manufacturer (BCO1054901)



Figure 1-1, ISO 9001:2015 Certificate of Compliance

	Name	Date	Revised	Date	 JENSHAU	JENSHAU	
Author	S. Miles	Jan. 2024					Revision -
Checked	R. Stanley	Jan. 2024					Page 1-1
Approved	S. Miles	Jan. 2024					

The Jenschau office facility is constructed from eight 40ft 'High Cube' shipping containers, forming a 2,500 square foot office, fitted with energy efficient solar panels.




Figure 1-2, Jenschau office facility



Figure 1-3, Jenschau office facility.

Jenschau is located on a ten-acre work site with three phase power and secured by an 18-foot-high barrier with security monitoring, and seventy-five acres available for expansion.

	Name	Date	Revised	Date	Jenschau Capability Summary	JENSHAU	
Author	S. Miles	Jan. 2024				 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024					Page 1-2
Approved	S. Miles	Jan. 2024					

2. Company Overview

Jenshau is a small, growing company engaged in build-to-print and design-build of steel structures, specializing in custom modifications of shipping containers. Jenshau is ISO 9001:2015 compliant.

Past Jenshau customers include:

- Savannah River National Laboratory (SRNL)
- Federal Aviation Administration (FAA)
- Booz Allen Hamilton
- Leidos
- Transocean
- Naval Information Warfare Center (NIWC)
- Scientific Research Corporation (SRC)
- Wells Global

Jenshau typically works directly with the customer to develop the designs and meet the respective customer and industry requirements. The size of the company enables quick implementation of new procedures and requirements.


Jenshau has the capability to perform engineering analyses and create detailed 2D and 3D engineering definitions using state of the art CAD software. Jenshau follows in-house production and material tracking processes allowing the production of consistent quality products.

Jenshau has extensive experience in equipment integration, verification, and testing. Jenshau would partner with specialist companies to provide the necessary systems expertise when required.

Jenshau uses project management techniques developed by the Project Management Institute (PMI) to manage projects.

2.1 Fabrication, Build and Services

- Turn-Key Container Modifications
- Full Blast and Paint Facility for Containers
- Advanced Electrical Capabilities
- New Design for Communication Shelters
- Full HVAC Services
- Emergency or Disaster Relief Housing
- Shipping Container Storage and Handling

	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024			 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024				Page 2-3
Approved	S. Miles	Jan. 2024				

2.2 Project Management

- Project management through all five Project phases (as defined by Project Management Institute) including:
 - Initiation
 - Planning
 - Execution
 - Monitoring and Controlling
 - Closing
- Stakeholder Management
- Earned Value Analysis
- Reporting
- PMI certified Project Manager (PMP)

2.3 Engineering

- Structural analysis using FEA (Finite Element Analysis) methodology to:
 - Validate designs
 - Verify the structure meets or exceeds design requirements
- 3D based product design
- State of the art engineering software (SolidWorks)

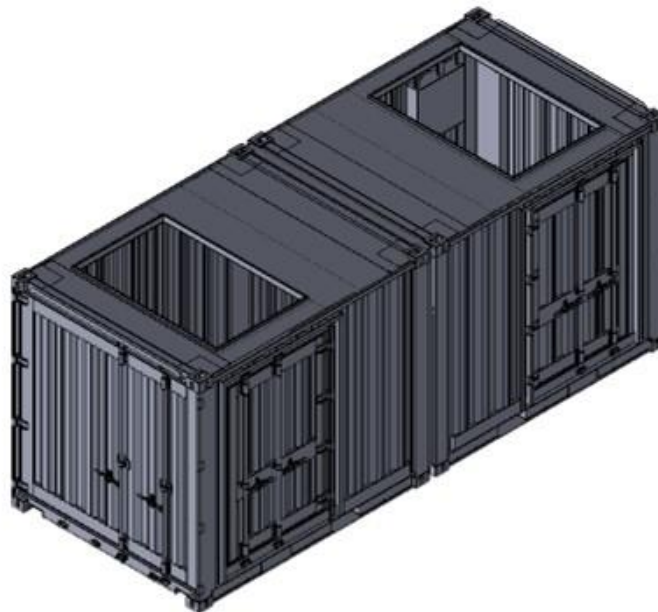



Figure 2-1, 3D Model of a modified container

	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024			 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024				Page 2-4
Approved	S. Miles	Jan. 2024				

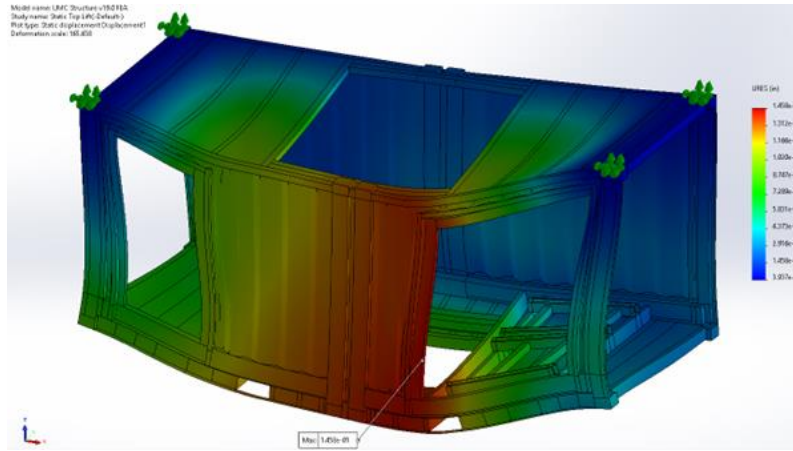


Figure 2-2, Finite Element Analysis Results

The deformations shown in Figure 2-2 are significantly magnified to enable easier visualization.

3. Past Performance


Jenshau has performed both fabrication and assembly of modified shipping container units under ‘build-to-print’ and design-build projects. The team at Jenshau has been instrumental in evolving the designs by bringing manufacturing and fabrication expertise to identify and provide optimal solutions to potential problems.

The fabrication of the units shown in Section 5 have all been completed at the Jenshau facility and delivered directly to the customer. Three of the projects referenced were for NIWC (Naval Information Warfare Center), North Charleston SC, delivered on time and within the contractual budget. Jenshau was responsible for the management of the fabrication process which incorporated the procurement of material and parts. The fabrication was performed following customer specific technical requirements and procedures, and in-house process controls. The customer was provided with regular status updates and, on all occasions, was very satisfied with both the product and the service.

Jenshau customers are typically repeat business or customers that may have come to Jenshau due to difficulties dealing with other suppliers. With the exception of the website, Jenshau does not advertise for work.

Past Jenshau customers include:

- Savannah River National Laboratory (SRNL)
- Federal Aviation Administration (FAA)
- Booz Allen Hamilton
- Leidos
- Transocean

	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024				 JENSHAU
Checked	R. Stanley	Jan. 2024			Page 3-5	
Approved	S. Miles	Jan. 2024				

- Naval Information Warfare Center (NIWC)
- Scientific Research Corporation (SRC)
- Wells Global

3.1 Recent Projects

3.1.1 Mobile Melt Consolidation System

From: 5/11/2020 To: 9/29/2023

Brief summary of work performed:

- Design Build of a complex multi container system including engineering, fabrication, and system integration
- End user – Savannah River National Laboratory

Capabilities demonstrated:

- Engineering of the complete multi container system
- Integration of sophisticated equipment
- Procurement of materials to complete fabrication
- Build to engineering specifications
- Project management
- Customer status reporting and on-site visits

3.1.2 MARS (Mobile Approach Radar Shelter)

From: 2/28/2019 To: 8/28/2019

Brief summary of work performed:

- Work performed for New Tech Solutions, two-unit build
- Delivered to NIWC North Charleston, South Carolina
- End user – US Air Force


Capabilities demonstrated:

- Management infrastructure, fabrication, HVAC and electrical
- Procurement of materials to complete fabrication
- Build to customers specification and identified required modifications
- In house program and status meetings
- Customer status reporting and on-site visits

3.1.3 Three-Unit MTRACON (Military Terminal Radar Approach Control Facility)

From: 12/22/2017 To: 8/22/2018

Brief summary of work performed:

	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU	
Author	S. Miles	Jan. 2024				 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024					Page 3-6
Approved	S. Miles	Jan. 2024					

- Unit repurposing / refurbishment. Eight months for completion and the shelter is currently being stored at the Jenshou Facility
- Delivered to NIWC North Charleston, South Carolina
- End user - FAA

Capabilities demonstrated:

- Management infrastructure, fabrication, HVAC and electrical
- Tracked customer supplied materials and procurement of materials to complete fabrication
- Refurbishment and modifications
- In house program and status meeting
- Customer status reporting and on-site visits

3.1.4 Air Traffic Control Shelter

From: 8/24/2018 To: delivery 4/2020

Brief summary of work performed:

- Advanced Computer Concepts, three-unit first of its kind Air Traffic Control Shelter and projected delivery date is 4/2020
- End user - NIWC North Charleston, South Carolina

Capabilities demonstrated:

- Management infrastructure, fabrication, HVAC and electrical
- Procurement of materials to complete fabrication
- Jenshou design build, client provided electrical outlet locations
- In house program and status meeting
- Customer status reporting and on-site visits

3.1.5 Three-Unit Shelter Build


From: 1/17/2019 To: 1/05/2020

Brief summary of work performed:

- Built to print container modifications
- End user - FAA / Wells Global

Capabilities demonstrated:

- Management infrastructure, fabrication
- Procurement of materials to complete fabrication

	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHOU	
Author	S. Miles	Jan. 2024				 JENSHOU	Revision -
Checked	R. Stanley	Jan. 2024					Page 3-7
Approved	S. Miles	Jan. 2024					

- Installed customer provided components, build to print and identification of required modifications
- In house program and status meeting
- Customer status reporting and on-site visit

4. Personnel Qualifications

4.1 Management

Summary of work experience:

- Forty years container modification and fabrication experience.
- Certified welder
- Owner manager for 18 years
- Certification in Refrigeration and HVAC systems

4.2 Project Manager

Summary of work experience:

- Project Management Professional (PMP) certification

4.3 Engineering

Summary of work experience:

- Over 30 years of engineering experience using state of the art engineering tools and processes

4.4 Production Personnel

Production team familiar with container modifications. The majority of our qualified production team members have a minimum of 10 years of experience.

4.4.1 Welding

Jenshau facility has several welding machines and has the capability to weld general steel, stainless steel and aluminum.

- 4 MIG welding machines
- 1 Stick welding machine
- 2 Plasma cutting machines


	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU	
Author	S. Miles	Jan. 2024				 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024					Page 4-8
Approved	S. Miles	Jan. 2024					



Figure 4-1, Aluminum welding


4.4.2 Cleaning / Blasting

Jenshau facility has a blast shop that can accommodate 53ft container.

- Sand blasting
- Bead / ball blasting



Figure 4-2 – Container blasting prior to painting

	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024				 JENSHAU
Checked	R. Stanley	Jan. 2024			Page 4-9	
Approved	S. Miles	Jan. 2024				



1. Figure 4-3 – Container blasting prior to painting

4.4.3 Painting

Jenshau facility has a paint shop that can accommodate a 53ft container.

- Airless spraying
- Air assisted spraying
-

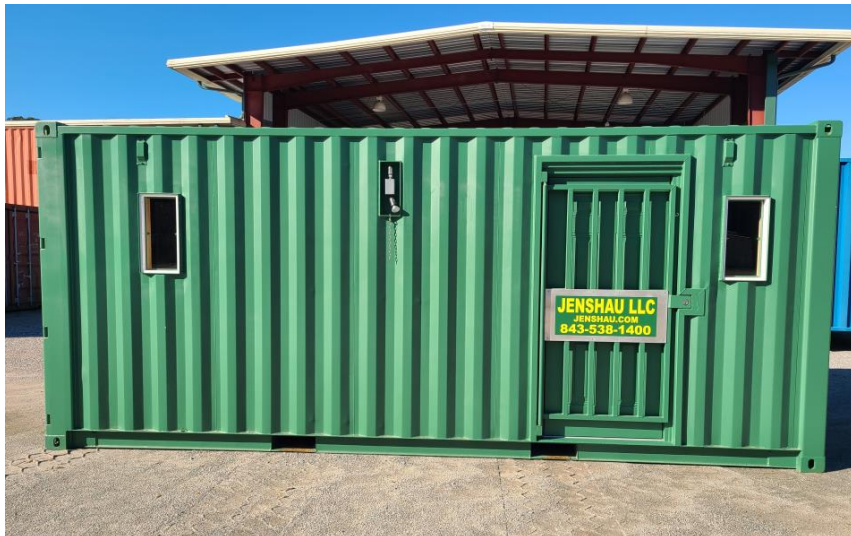


Figure 4-4 – Example container painted


	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU	
Author	S. Miles	Jan. 2024				 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024					Page 4-10
Approved	S. Miles	Jan. 2024					



Figure 4-5 – Example container painted

4.4.4 Shop Space for Fabrication, Assembly and Testing

Jenshau facility incorporates several workshops:

- Fabrication shop
- Welding shop
- Carpentry shop
- Assembly shop
- Paint and blast shop

4.4.5 Material Handling Equipment, Cranes, Forklifts

- Small forklift
- Medium forklift
- Large top loader (capable of lifting 53ft container and stacking 3 containers high)



	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU	
Author	S. Miles	Jan. 2024				 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024					Page 4-11
Approved	S. Miles	Jan. 2024					



Figure 4-6 – Container top loader



Figure 4-7 – Container top loader and mid-sized forklift

	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024				 JENSHAU
Checked	R. Stanley	Jan. 2024			Page 4-12	
Approved	S. Miles	Jan. 2024				


4.4.6 Tools, Tooling & Fixtures

Staging frames for access

Trolley frame for supporting / moving containers.



Figure 4-8 – Example Trolley frame for moving containers

	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024			 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024				Page 4-13
Approved	S. Miles	Jan. 2024				

5. Examples of Container Modifications

Jenshau has the required resources to complete 'heavy' modifications of shipping containers.

The following figures show the examples of container modifications.



Figure 5-1, Prefabricated housing unit


	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024				 JENSHAU
Checked	R. Stanley	Jan. 2024			Page 5-14	
Approved	S. Miles	Jan. 2024				



Figure 5-2, Prefabricated housing unit



Figure 5-3, Prefabricated housing unit


	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU	
Author	S. Miles	Jan. 2024				 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024					Page 5-15
Approved	S. Miles	Jan. 2024					



Figure 5-4, Prefabricated housing unit



Figure 5-5, Prefabricated housing unit


	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU	
Author	S. Miles	Jan. 2024				 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024					Page 5-16
Approved	S. Miles	Jan. 2024					



Figure 5-6, Example of container modification – roof, sidewall and doors



Figure 5-7, Design build ladder and railing system.


	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024				 JENSHAU
Checked	R. Stanley	Jan. 2024			Page 5-17	
Approved	S. Miles	Jan. 2024				



Figure 5-8, Design build ladder and railing system



Figure 5-9, Example of past Jenshau work


	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024				 JENSHAU
Checked	R. Stanley	Jan. 2024			Page 5-18	
Approved	S. Miles	Jan. 2024				



Figure 5-10, Example of past Jenshou work



Figure 5-11, Example of past Jenshou work


	Name	Date	Revised	Date	Jenshou Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024				 JENSHAU
Checked	R. Stanley	Jan. 2024			Page 5-19	
Approved	S. Miles	Jan. 2024				



Figure 5-12, Example of past Jenshau work



Figure 5-13, Example of past Jenshau work


	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024				 JENSHAU
Checked	R. Stanley	Jan. 2024			Page 5-20	
Approved	S. Miles	Jan. 2024				



Figure 5-14, Example of past Jenshau work



Figure 5-15, Example of past Jenshau work


	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU	
Author	S. Miles	Jan. 2024				 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024					Page 5-21
Approved	S. Miles	Jan. 2024					



Figure 5-16, Example of past Jenshau work



Figure 5-17, Example of past Jenshau work



	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024				 JENSHAU
Checked	R. Stanley	Jan. 2024			Page 5-22	
Approved	S. Miles	Jan. 2024				



Figure 5-18, Example of past Jenshau work

	Name	Date	Revised	Date	Jenshau Capability Summary	JENSHAU
Author	S. Miles	Jan. 2024			 JENSHAU	Revision -
Checked	R. Stanley	Jan. 2024				Page 5-23
Approved	S. Miles	Jan. 2024				