Green University of Bangladesh

Department of Computer Science and Engineering (CSE)
Semester: (Spring, Year: 2023), B.Sc. in CSE (Day)

3D Wooden Boat

Course Title: Engineering Drawing Lab
Course Code: CSE 208
Section: PC-213DB

Students Details

Name	ID
Jakiyatun Naima	193902013
Mahbub Al Suprove Meshbah	193902016

Submission Date: 20-06-2023
Course Teacher's Name: Rusmita Halim Chaity

[For teachers use only: Don't write anything inside this box]

Lab Project Status	
Marks:	Signature:
Comments:	Date:

Contents

1) Introduction

A wooden boat is a vessel constructed of wood generally intended to transport one or more persons across a body of water. And we tried to design a boat in 3D by using Autocad. This report represents a comprehensive overview of our groundbreaking project, the 3D Wooden Boat. This report aims to provide an in-depth analysis of the design, construction and potential applications of our innovative boat concept.The 3D Wooden Boat project represents a unique fusion of traditional craftsmanship and modern technology. By leveraging the capabilities of 3D modeling and computer-aided design (AutoCAD), we have revolutionized the process of boat design and construction.In this report, we will explore the design philosophy that guided our creative process, highlighting the inspiration and vision behind our boat's unique features. We will dive into the technical aspects of our boat's construction, including the materials utilized and the methods employed to ensure durability and performance. Furthermore, we will discuss the potential applications and future prospects of 3D wooden boat design in various industries and recreational pursuits.Through this report, we aim to showcase the remarkable possibilities that arise when traditional craftsmanship converges with cutting-edge technology, pushing the boundaries of boat design and setting new standards for excellence.

2) Overview

The 3D Wooden Boat Project provides a comprehensive overview of our pioneering venture that combines traditional wooden boat craftsmanship with state-of-the-art 3D modeling and design technology. This report aims to present a detailed analysis of the project, covering various aspects such as design philosophy and potential applications. It explores the inspiration and vision that guided the project, emphasizing the desire to create a vessel that seamlessly blends aesthetics, functionality and sustainability.

In the design section, the report dives into the intricate details of the boat's architecture and modeling involved in achieving the desired shape, proportions and ergonomic considerations. It also discusses the various innovative features incorporated into the design to enhance performance, comfort and safety.

Furthermore, the report explores the potential applications of 3D wooden boat design in various industries. It discusses the advantages offered by 3D modeling in terms of customization, efficiency and cost-effectiveness, paving the way for future innovations in boat design and manufacturing.

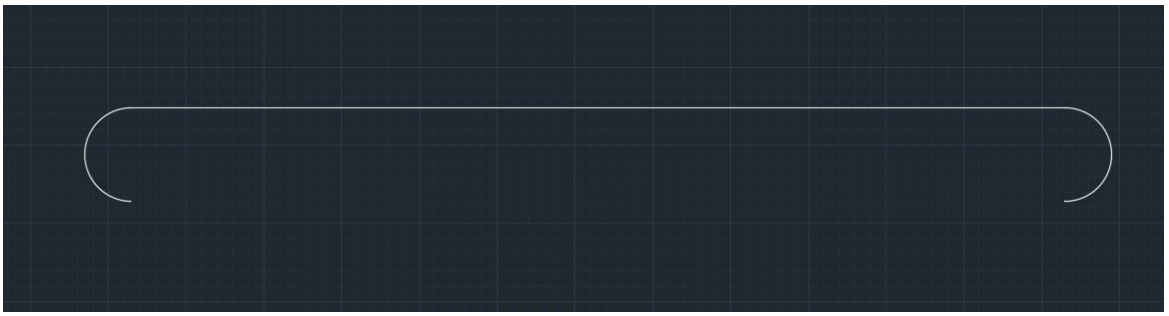
In conclusion, the 3D Wooden Boat Project report showcases the remarkable convergence of tradition and technology, demonstrating the limitless possibilities that arise from embracing innovation while honoring time-honored craftsmanship.

3) Required System

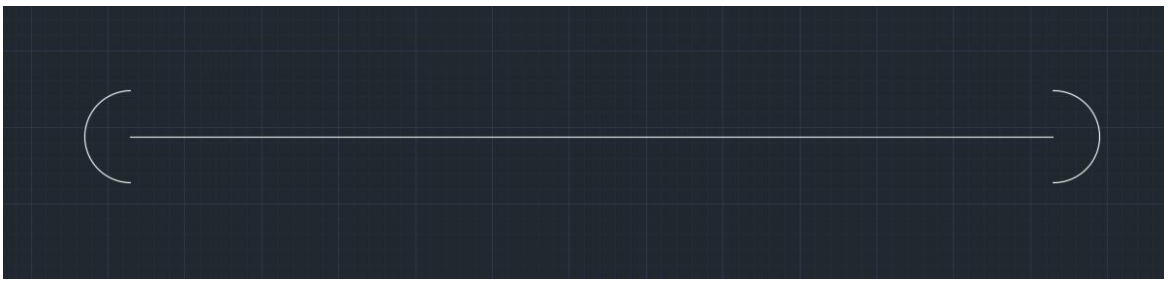
- Windows Operating System
- AutoCAD

4) Design

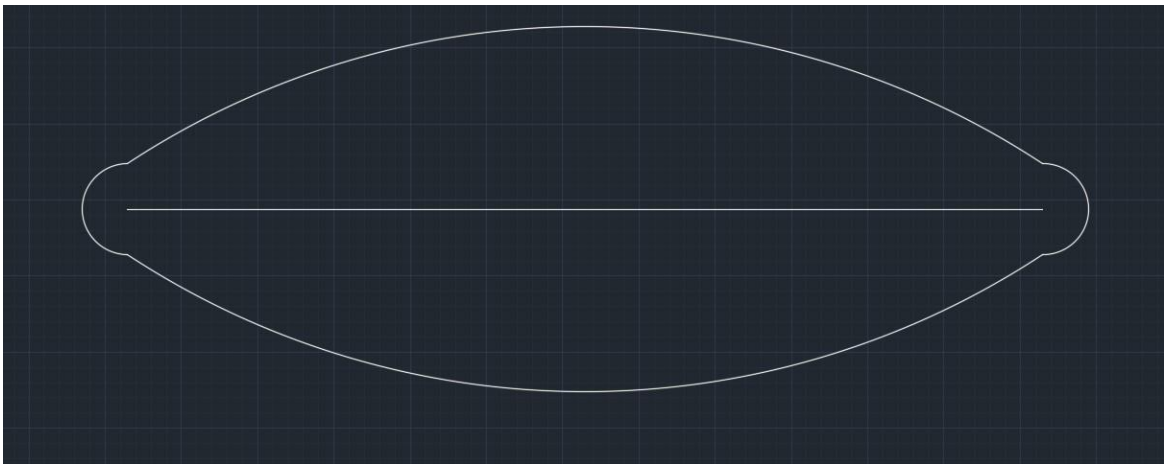
a) At first drew a line of 30 cm.Then drew 3 point arcs on both sides of the line.



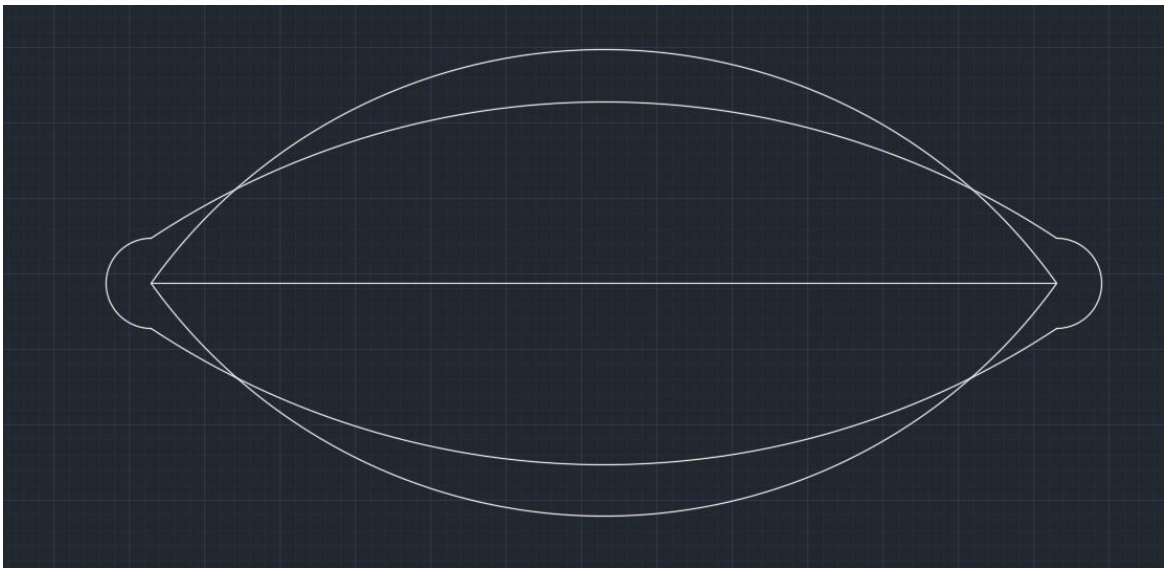
b) Then deleted the line and connected the centers of the arcs.



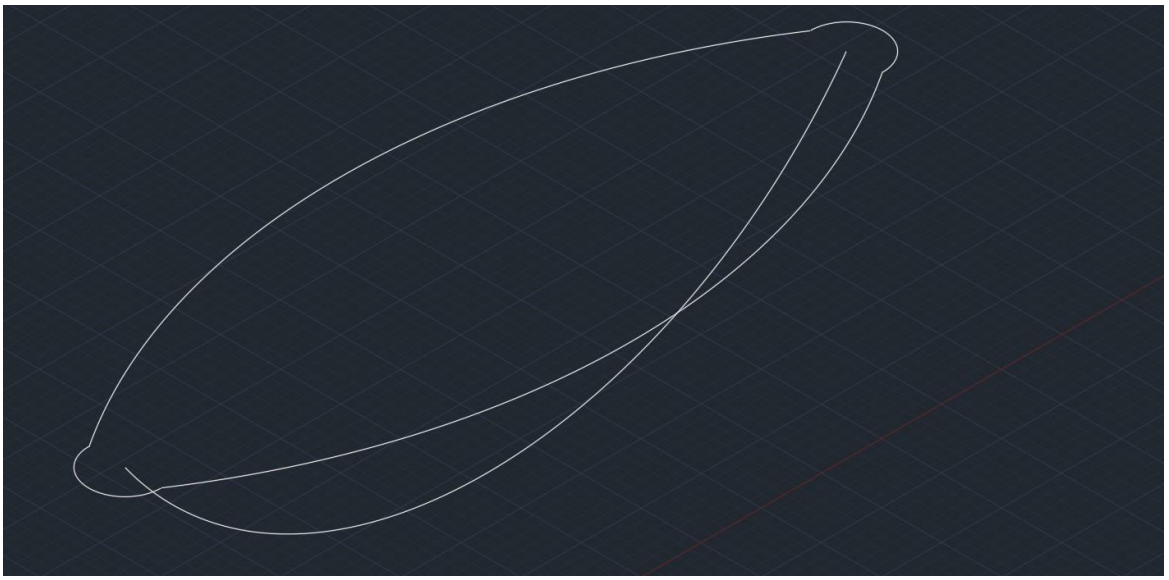
c) After that drew a 3 point arc by connecting the both sides of the arcs on both sides and mirrored the arc on the opposite point.



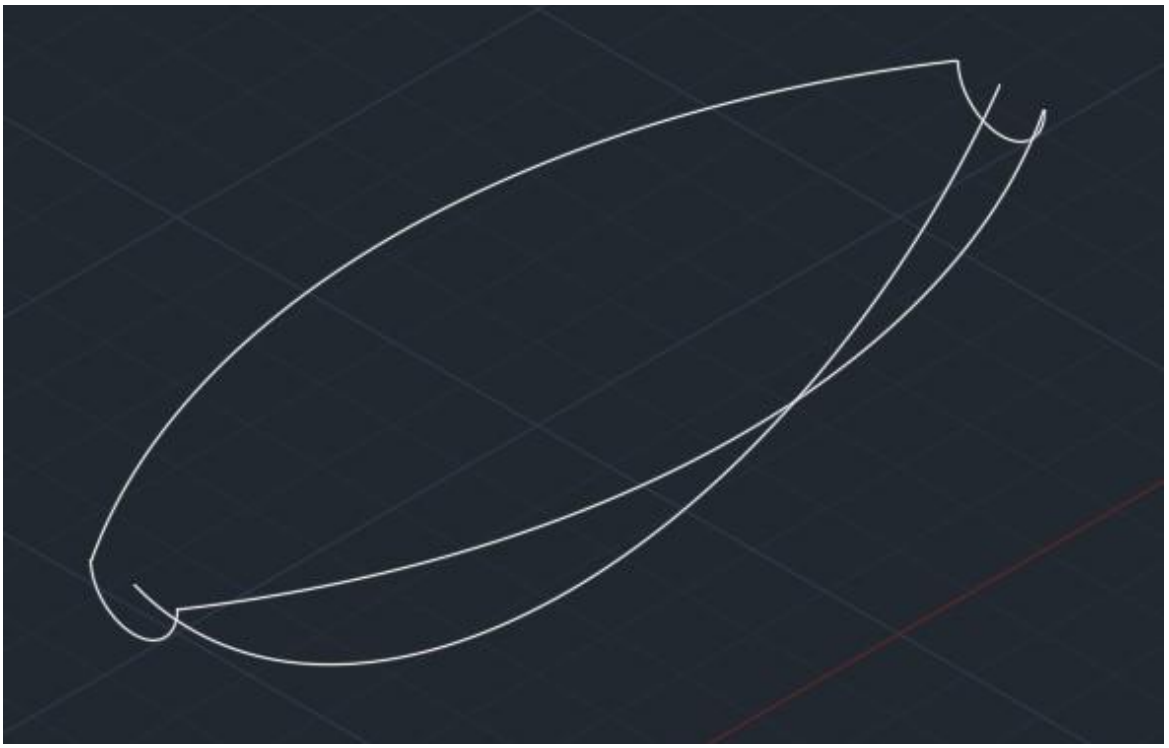
d) Then created another 3 point arc from the center the arcs on both sides and mirrored the arc.



e) Then changed the view to SW Isometric. After that 3D rotated the middle arc by 270 degrees.

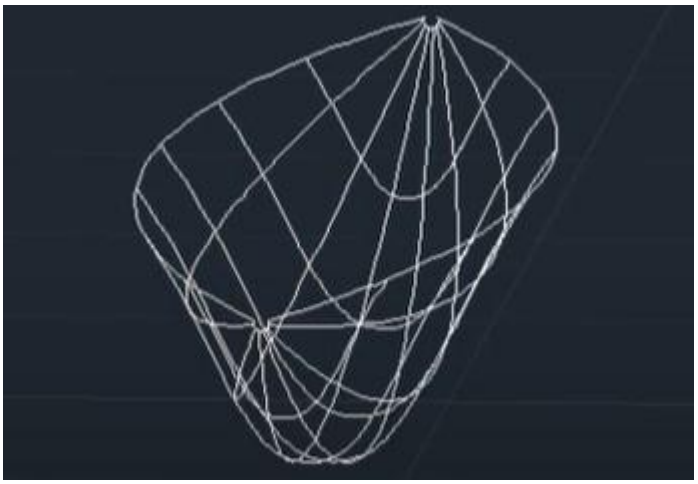


f) Then 3D rotated the arcs of both sides by 270 degrees.

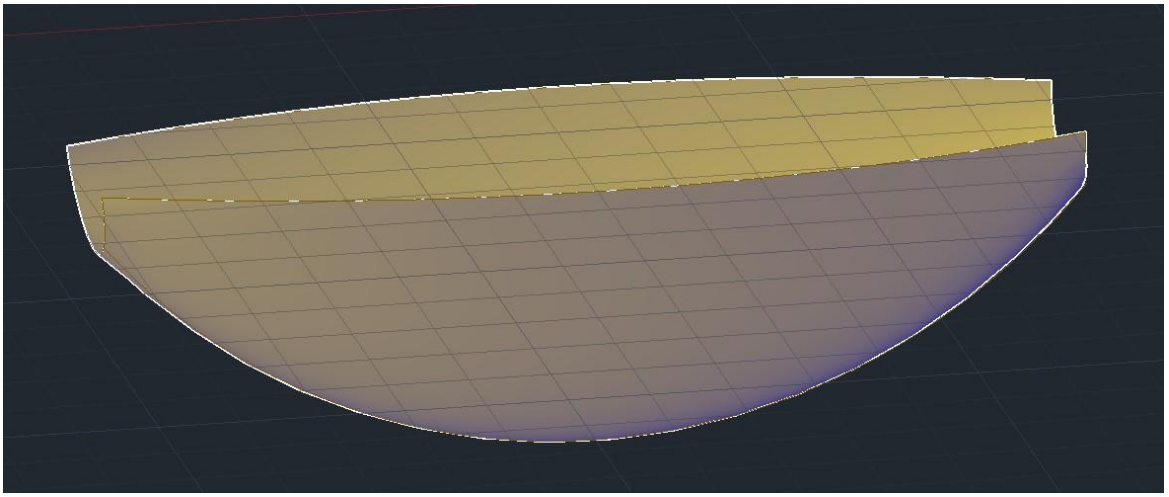


g) After that selected the surface from network and created the

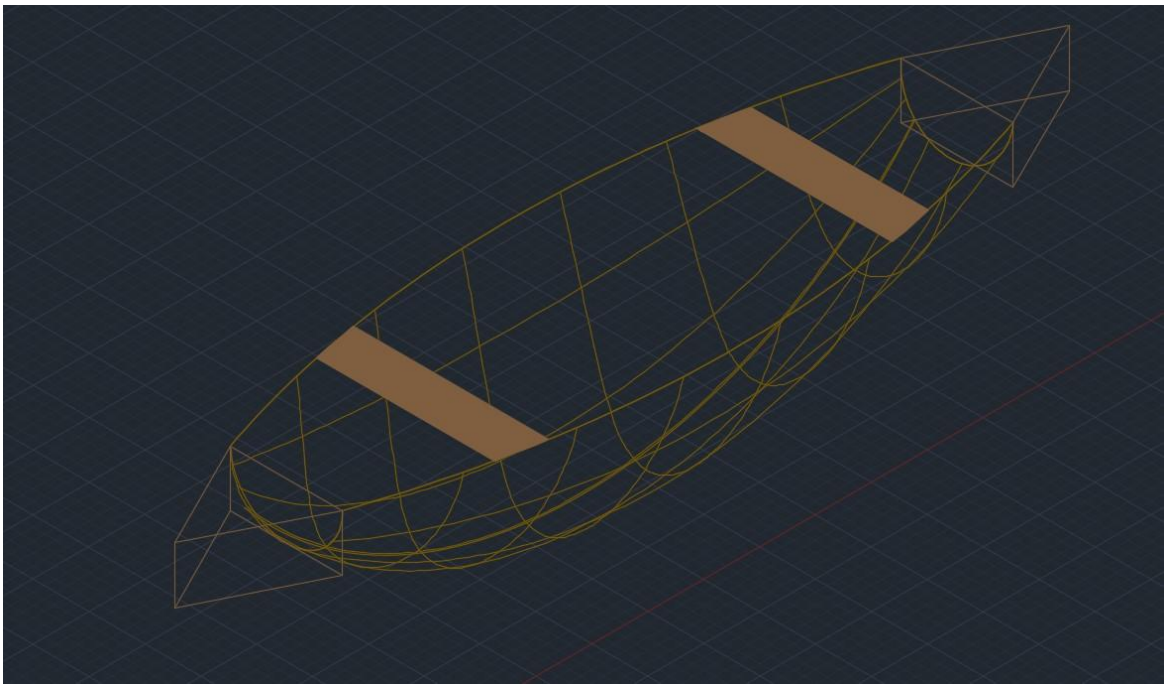
surface by selecting the edges.



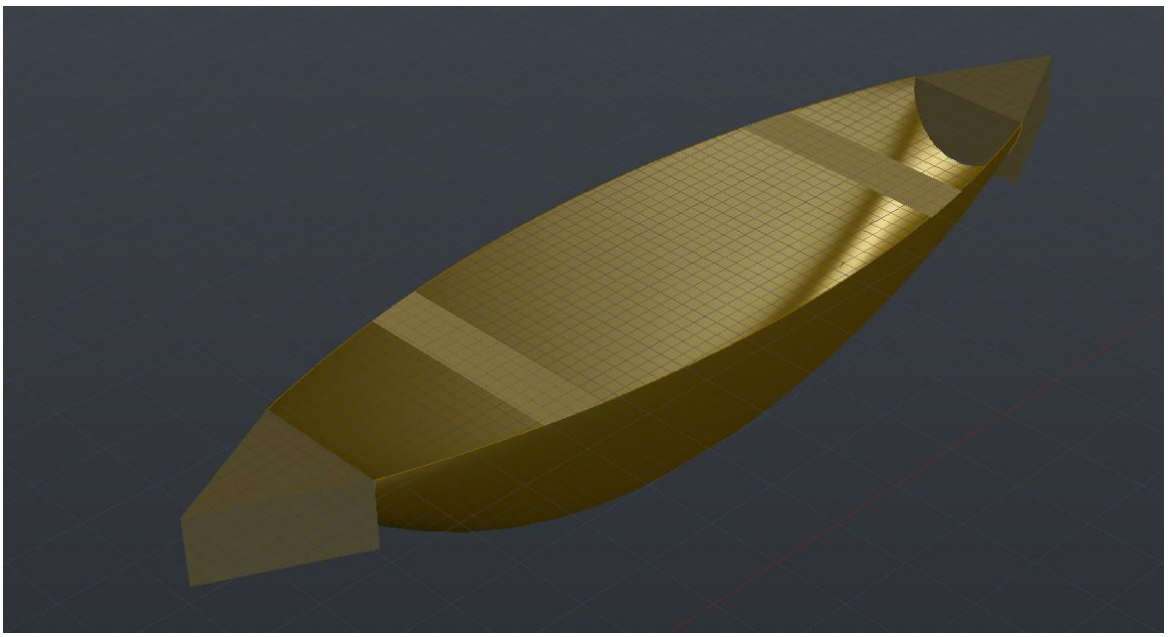
h) Then changed the color from the color palette from the surface network menu.



i) Then drew two triangles on both sides and two decks on the middle and changed the color.



j) Finally changed the view to SW Isometric and realistic.



5) Conclusion

The 3D Wooden Boat Project report serves as a testament to the successful integration of traditional wooden boat craftsmanship with cutting-edge 3D modeling technology. It highlights the project's innovative design, meticulous construction techniques and potential applications in various industries. By leveraging the advantages of 3D modeling,the project has pushed the boundaries of boat design, resulting in a vessel that embodies elegance, functionality, and sustainability. The report underscores the significance of embracing technological advancements while preserving the artistry of craftsmanship.