



Problem Statement

To design an environmental friendly ferry capable to transport residents from a condo association to an island in Biscayne Bay area.

Objectives

- To carry between 12-20 people
- Have solar power as primary means of power.
- Meet all rules and regulations of local and governmental agencies.



Design Considerations

- Shallow Draft.
- Maximum depth below water hull 1 foot.
- Environmental Regulations

Prototype and Testing

A scale version of the boat will be constructed in order to test both; the pontoon hull design and the electric power system.

Project Motivation

To gain experience by designing and manufacturing a very innovative and efficient water vessel using the knowledge obtained throughout the mechanical engineering curriculum at FIU.

Time Line

Task Name	Q4			Q1			Q2			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
1 Site Visit Meeting with Client	Site Visit									
2 Literature Survey	Literature Survey									
3 Design Alternatives	Design Alternatives									
4 10% Report	10% Report									
5 Conceptual Design	Conceptual Design									
6 Poster Design	Poster Design									
7 Solidworks Modeling				Solidworks Modeling						
8 Solidworks & ANSYS Selection				Solidworks & ANSYS						
9 25% Report	25% Report									
10 Research & Solar Panels Selection			Research & Solar Panels Selection							
11 Analytical & Structural Analysis			Analytical & Structural							
12 Purchasing Materials			Purchasing Materials							
13 Building Process & Testing						Building Process				
14 Final Prototype						Final Prototype				
15 Final Report						Final Report				
16 Presentation							Presentation			

Team Members



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