

Design of Electric Boat With Auxiliary Solar Power

A Leisure Boat for Calm Waters

Prakash Sonkamble

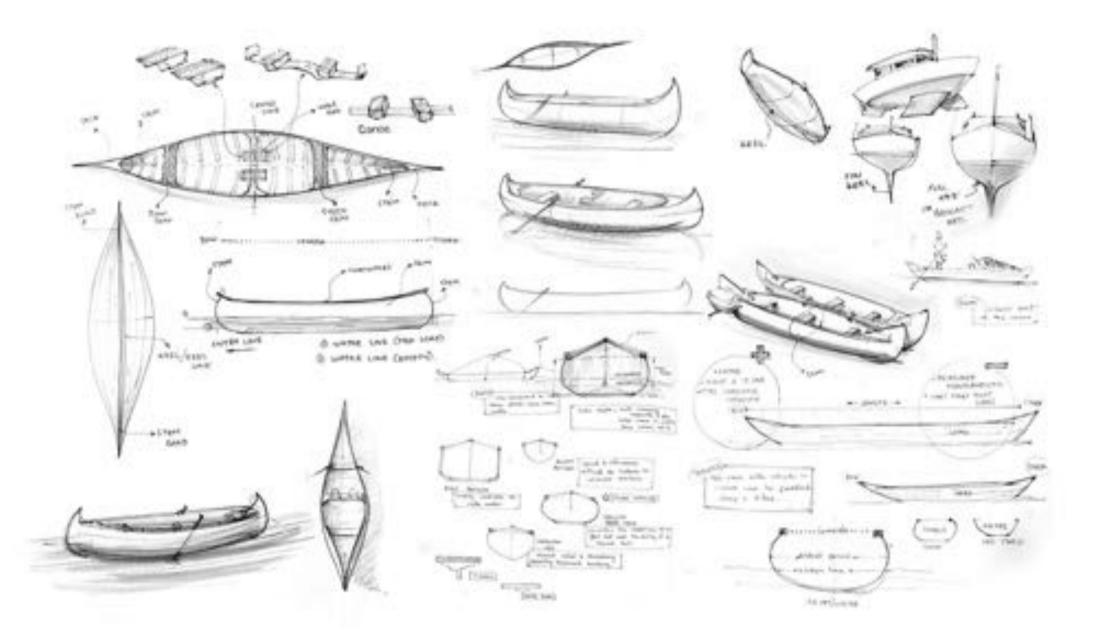
Deepak Peddoju













Leisure Boat



20 - 40 Minutes



4 to 5 Maximum Includes Driver



Electric

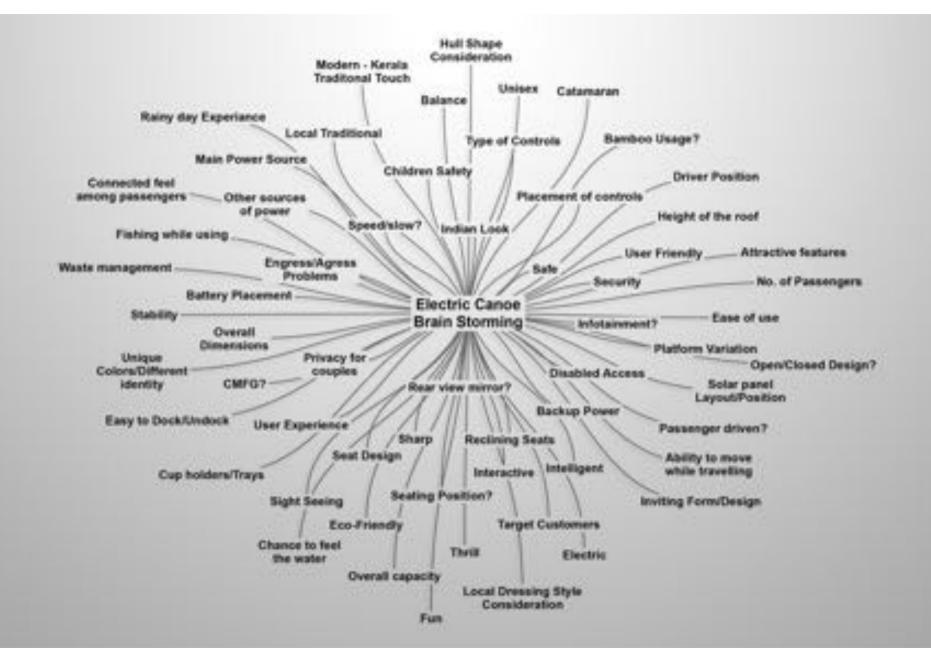
DESIGN BRIEF

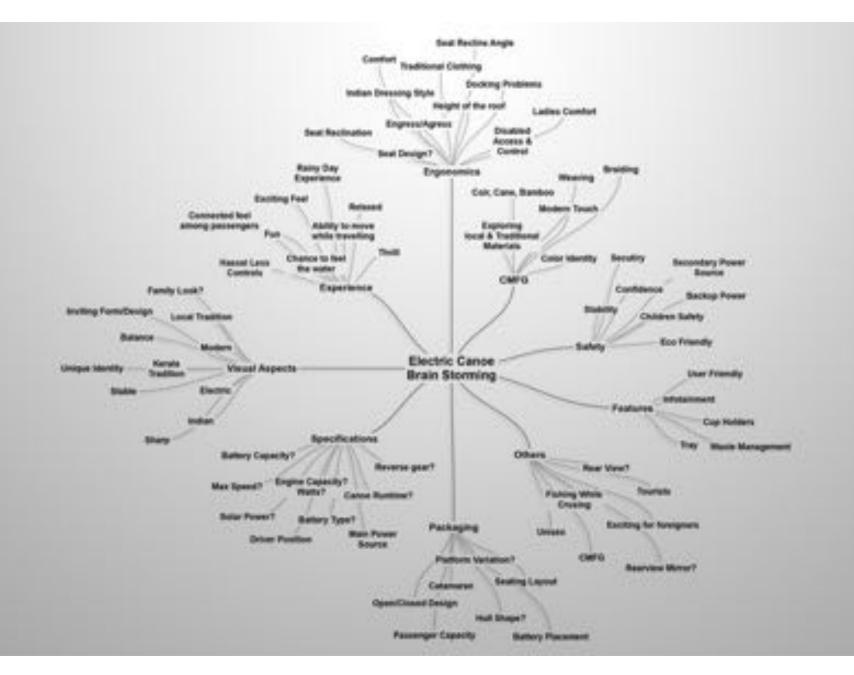
To design an electric boat with auxiliary solar power for leisure trips in calm waters. It can carry 4 to 5 people at a time and does not need an experienced driver.

BRAIN STORMING

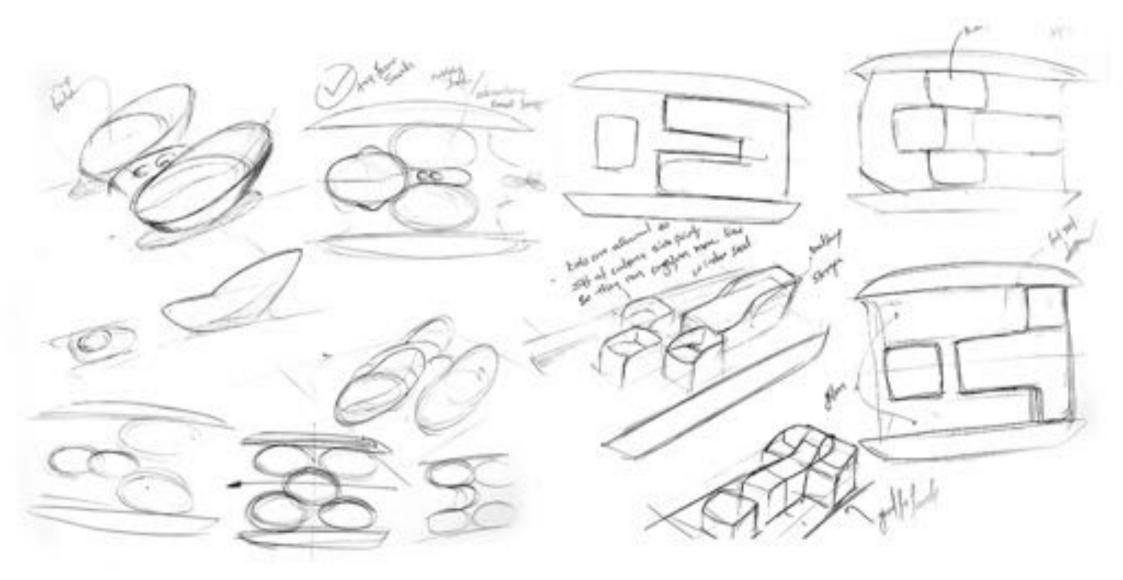


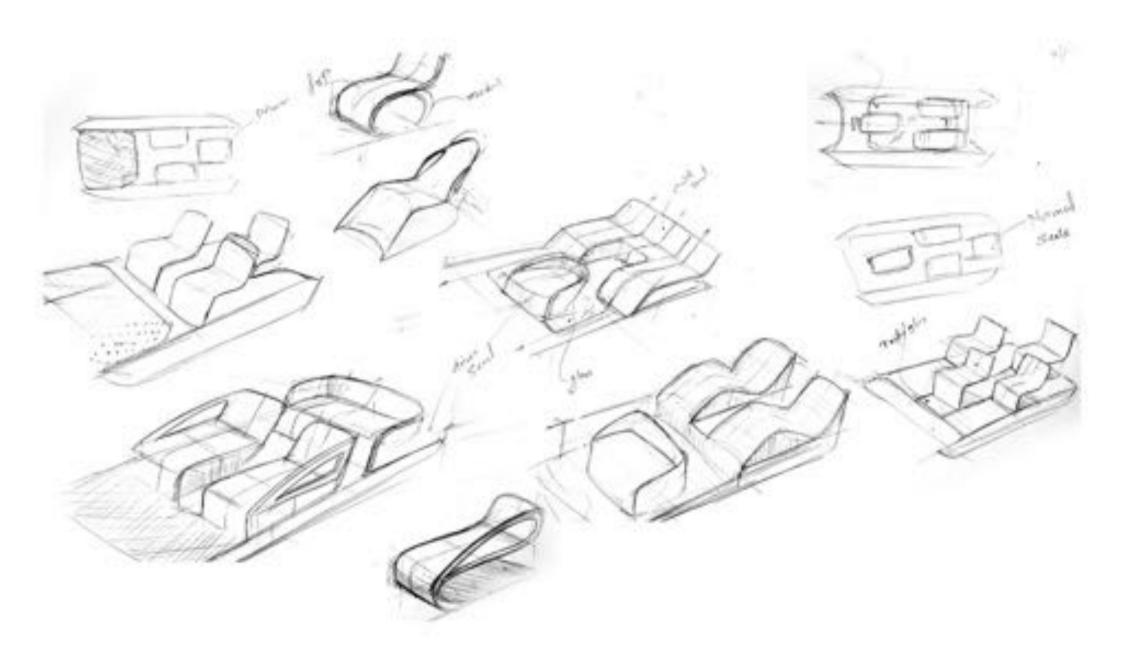


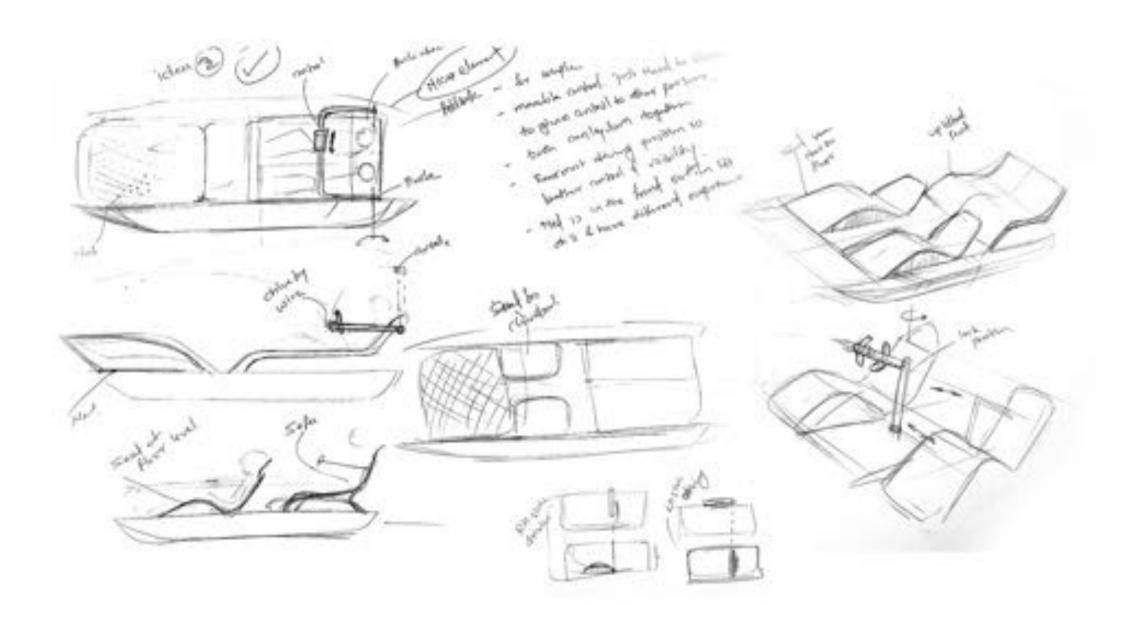


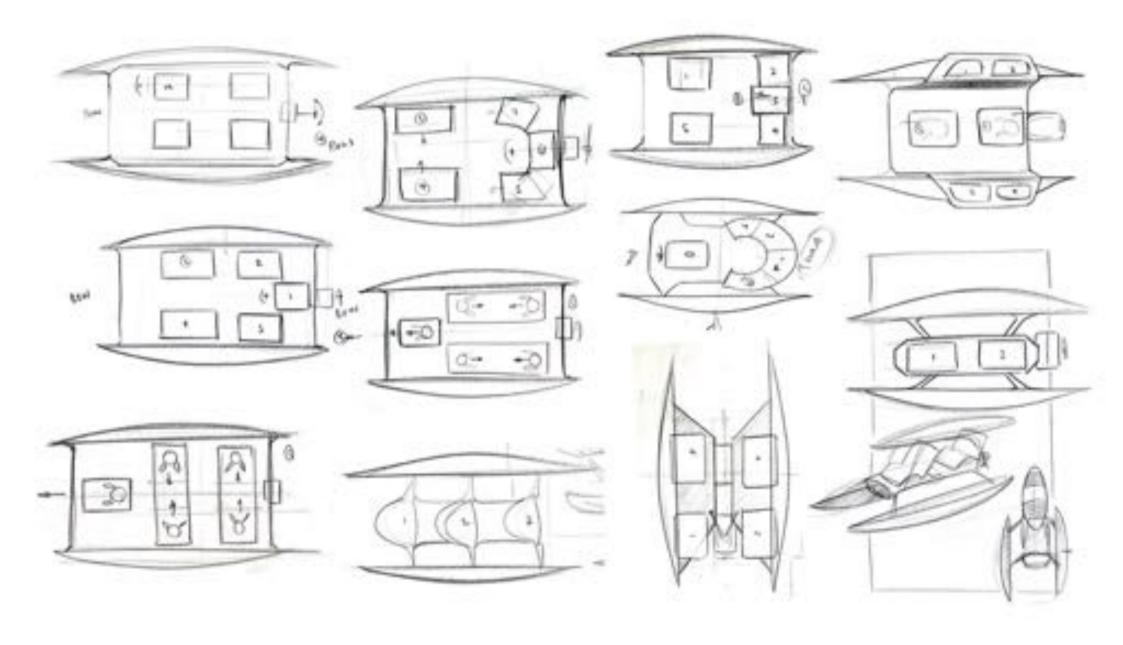


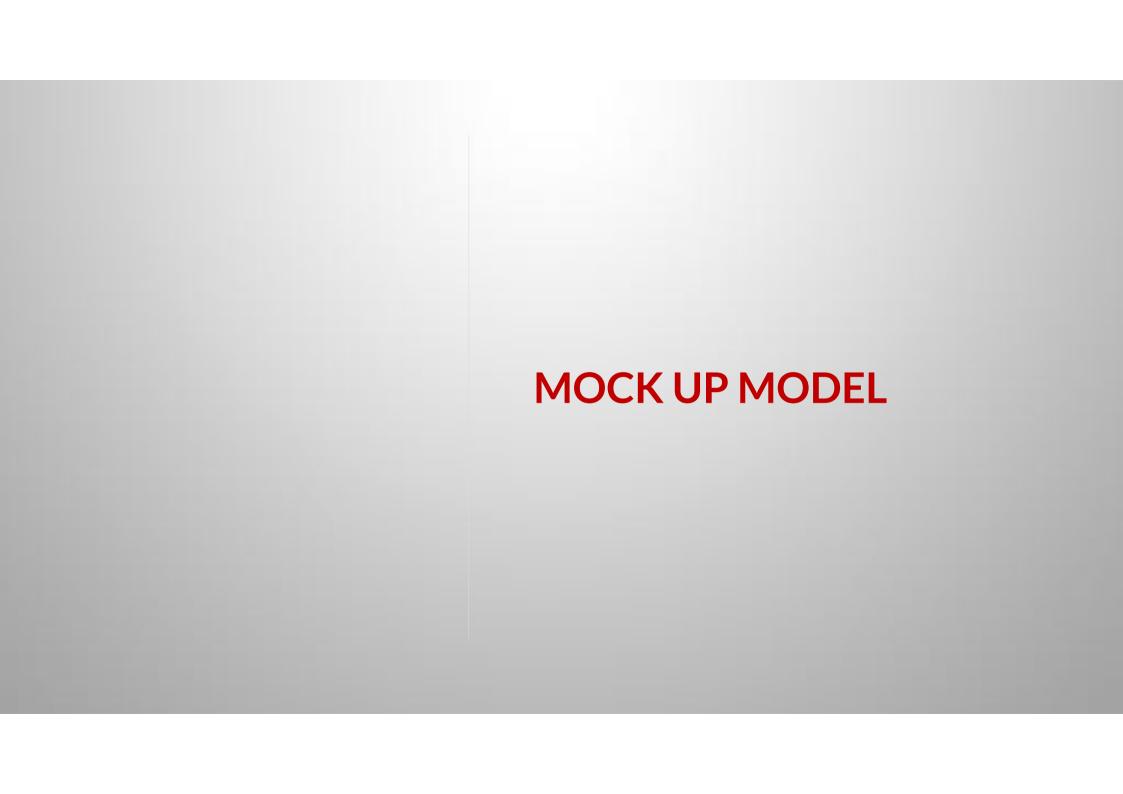
















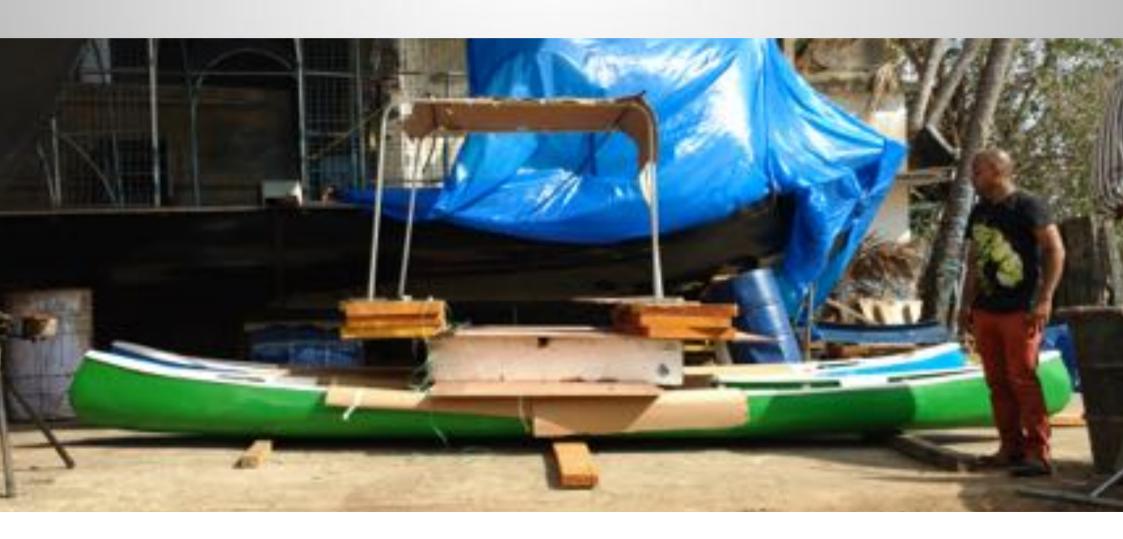








Final Mock Up Model

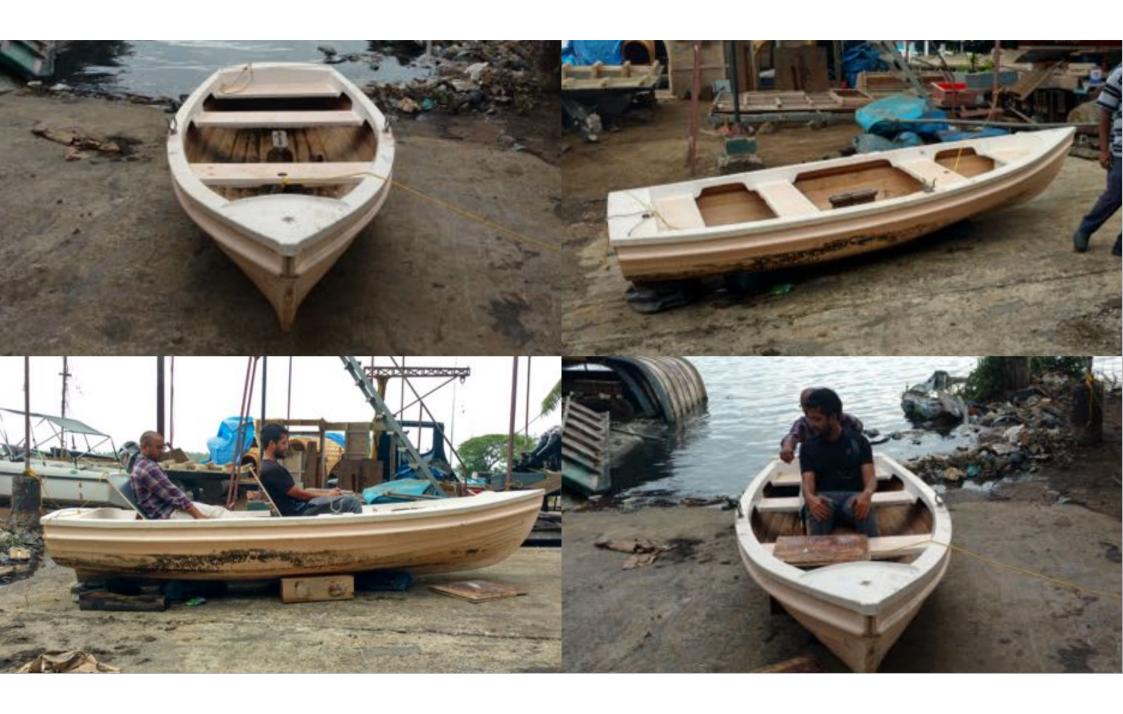




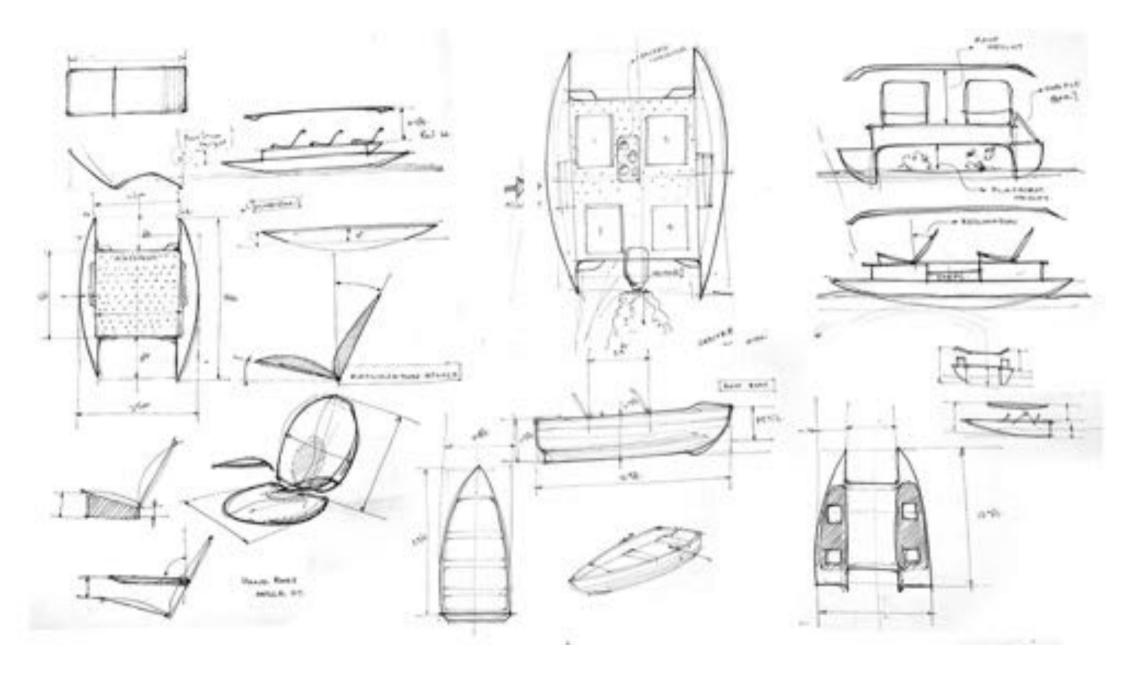


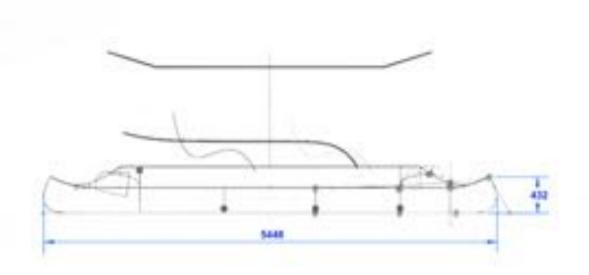


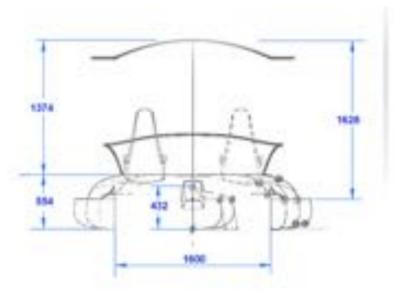


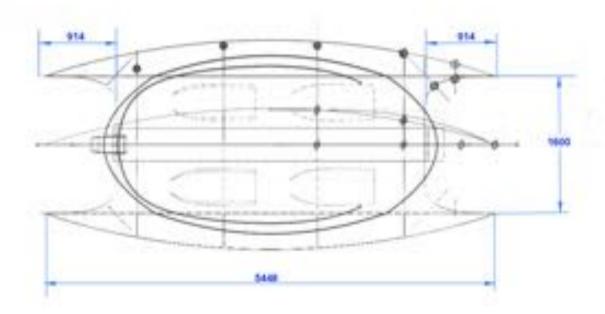




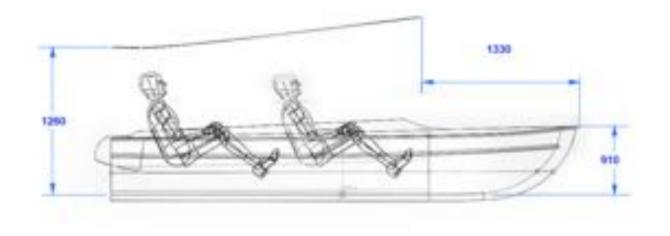


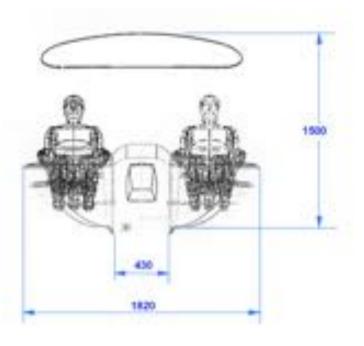


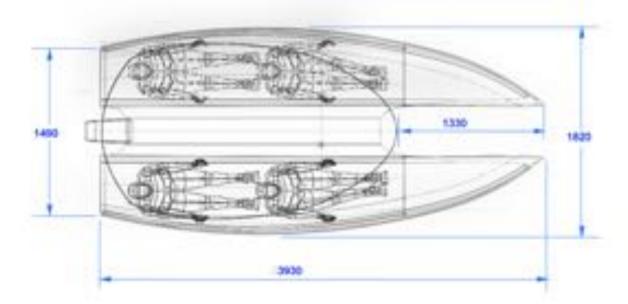




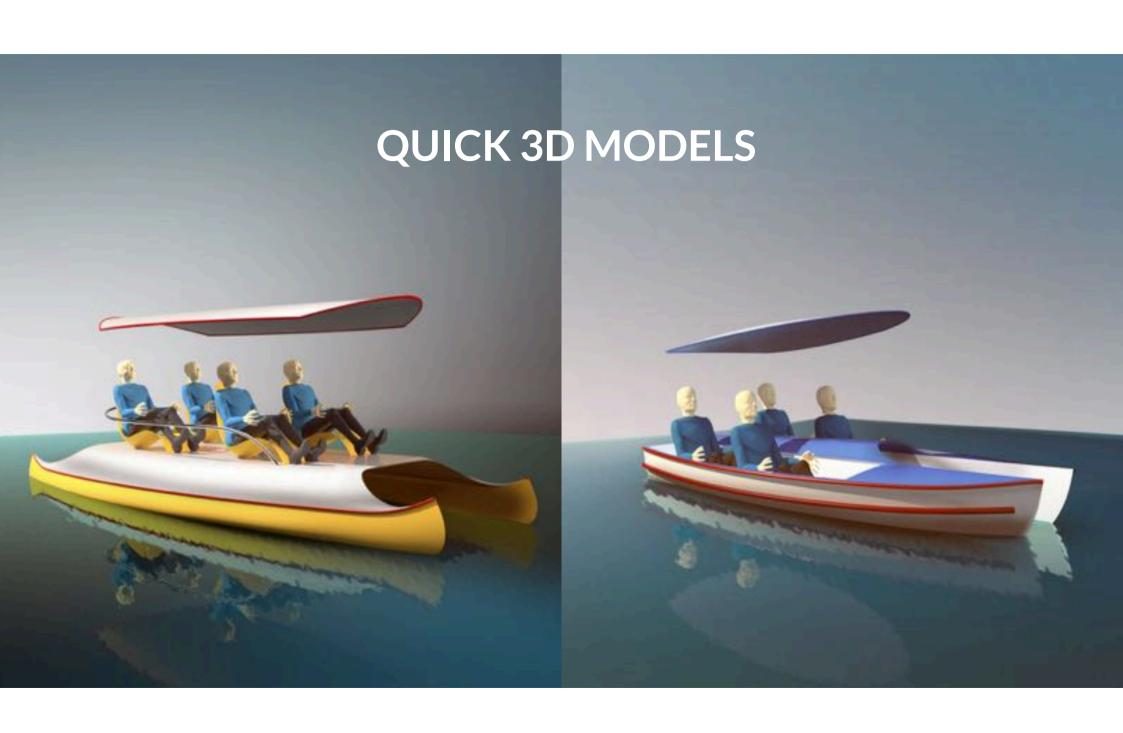
ALL DIMENSIONS ARE IN MM







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INVESTOR REVIEW

- Interested in canoe based design. Thinks it is more stable, safe and good looking.
- Concerned about passengers sitting close to the water in the row boat.
- Canoe based design is economical than row boat based design.



USER REVIEWS

Which one do you like the most? Why?

Are you afraid of travelling in water?

Which one looks more safe to you?

Do you like sitting close to the water while in a boat?

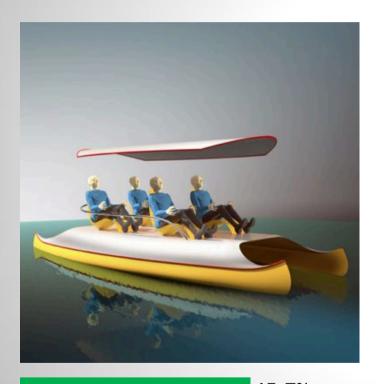
Which one looks more safe to travel with children?

Which one would you pick for a ride with your family?

Which one do you like the most?







65.7%

Looks very comfortable

Looks stable

Seating layout looks very comfortable

Dynamic form and stability

Form is clean and unconventional

Safe from rain

Spacious

Design is awesome

Good feeling

Interesting look

Looks big and nice!

Looks practical

People seating together

Wide base area looks safe compared to 2nd Boat

High seating position. Hence, a better view!

Why?

Sharp edge looks attractive

Safety

Seating position

Looks classy!

Storage

looks comfortable

Everyone is close to each other

Safe from rain

Looks stable

Easy Conversation

Interesting look

Gives a protected feeling

Looks better

than the other

People seating together

Looks sporty

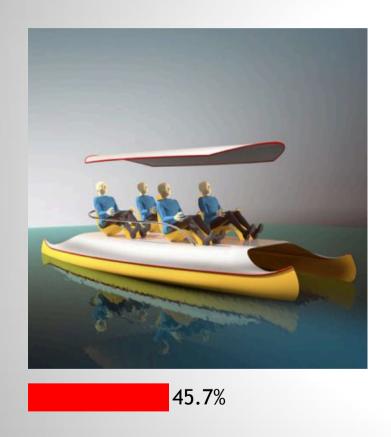
Close to Water

Shape looks good

Simple



Which one looks more safe to you?





Why?



High seating position

Wide base area

More balanced

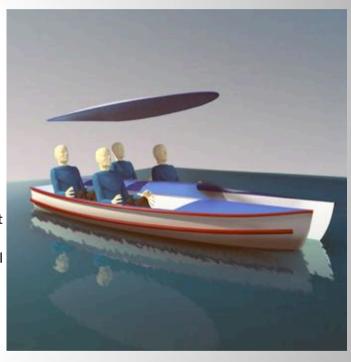
Looks strong



Protected Feel

Easy Maneuverability

Stable design

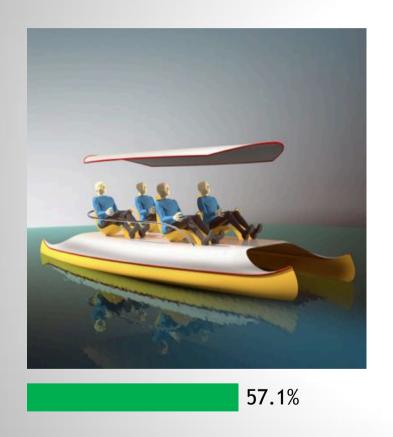


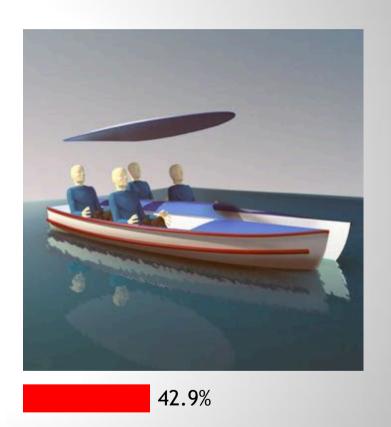
Which one looks more safe to travel with children?





Which one of these would you pick for a ride with your family?





OBSERVATIONSUSER NEEDS?

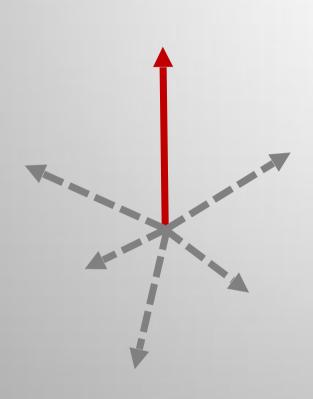
Protected Feel

Balance Comfort

Safety

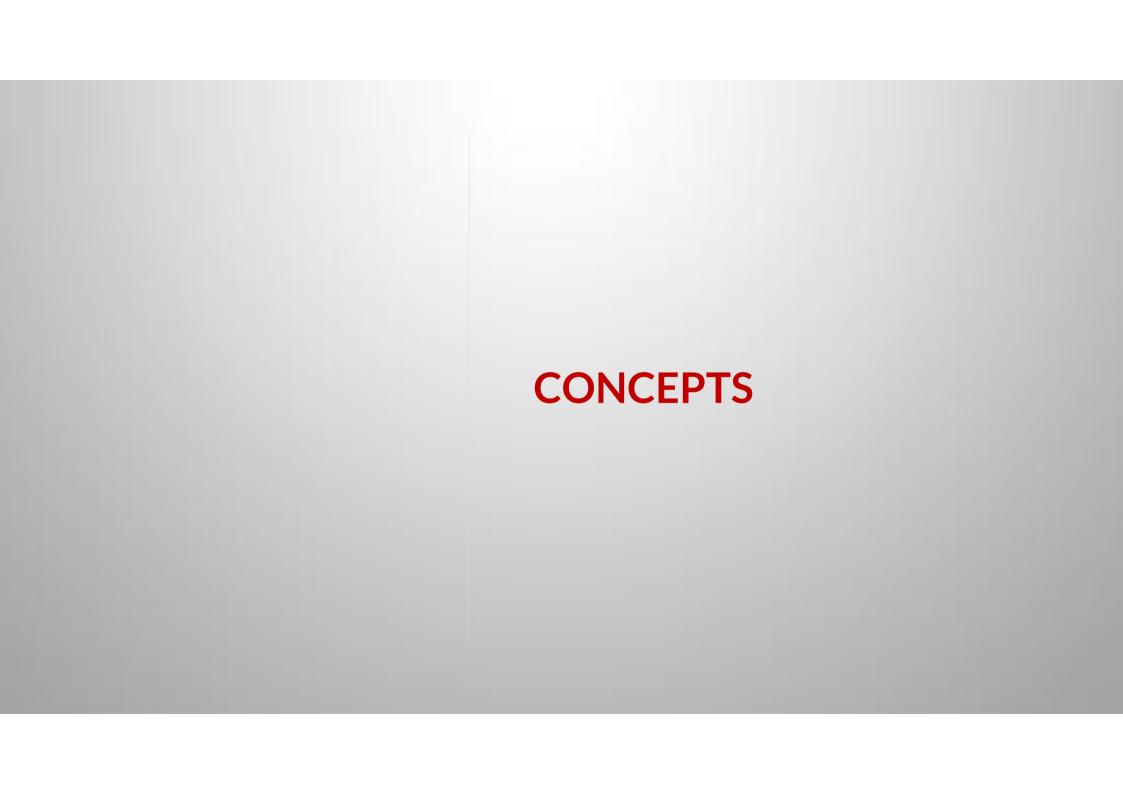
Open View Confidence

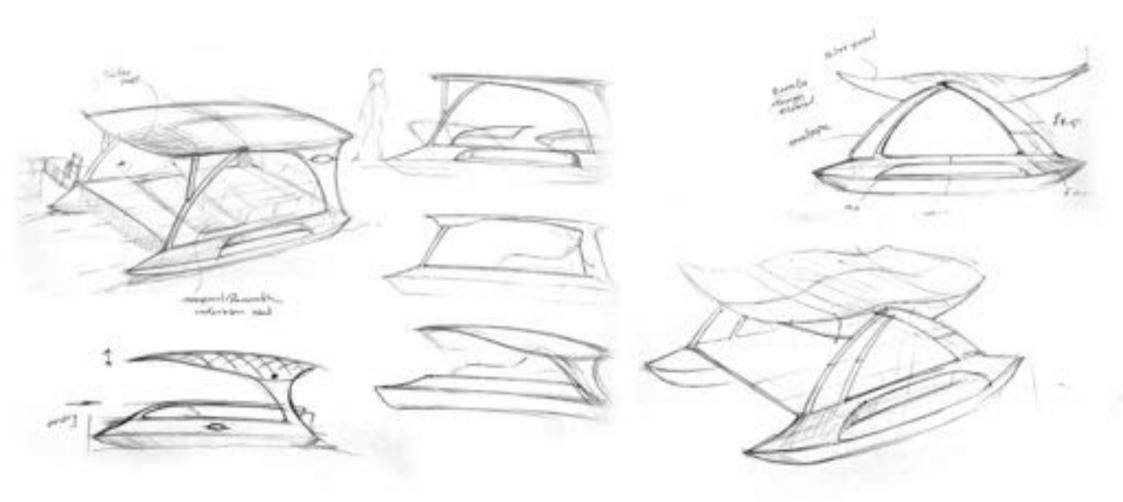
Easy Controls

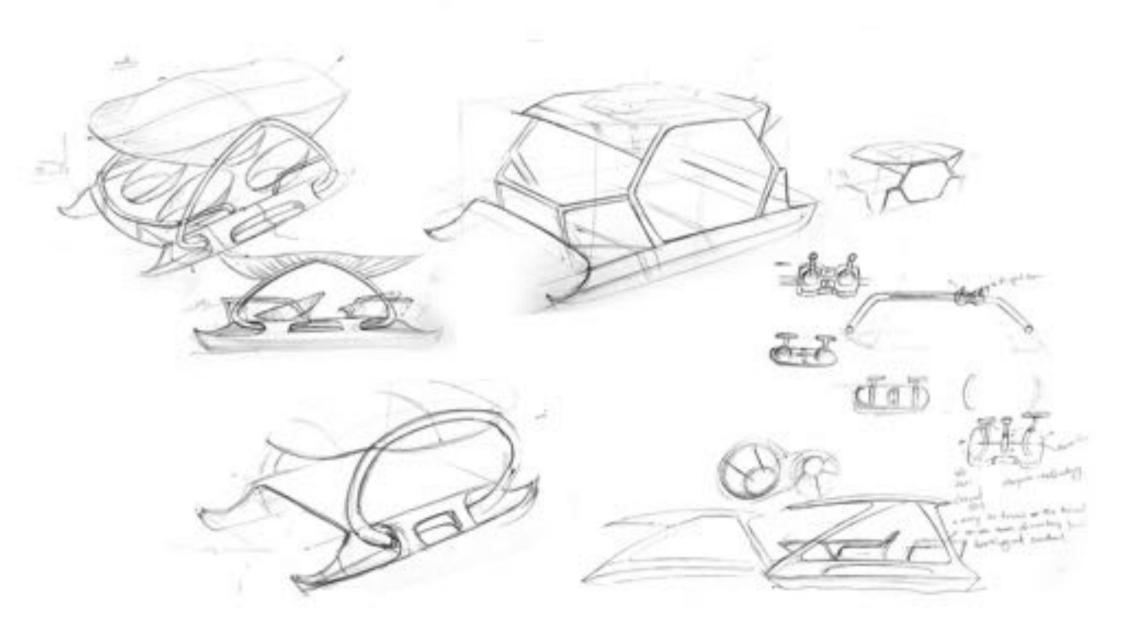


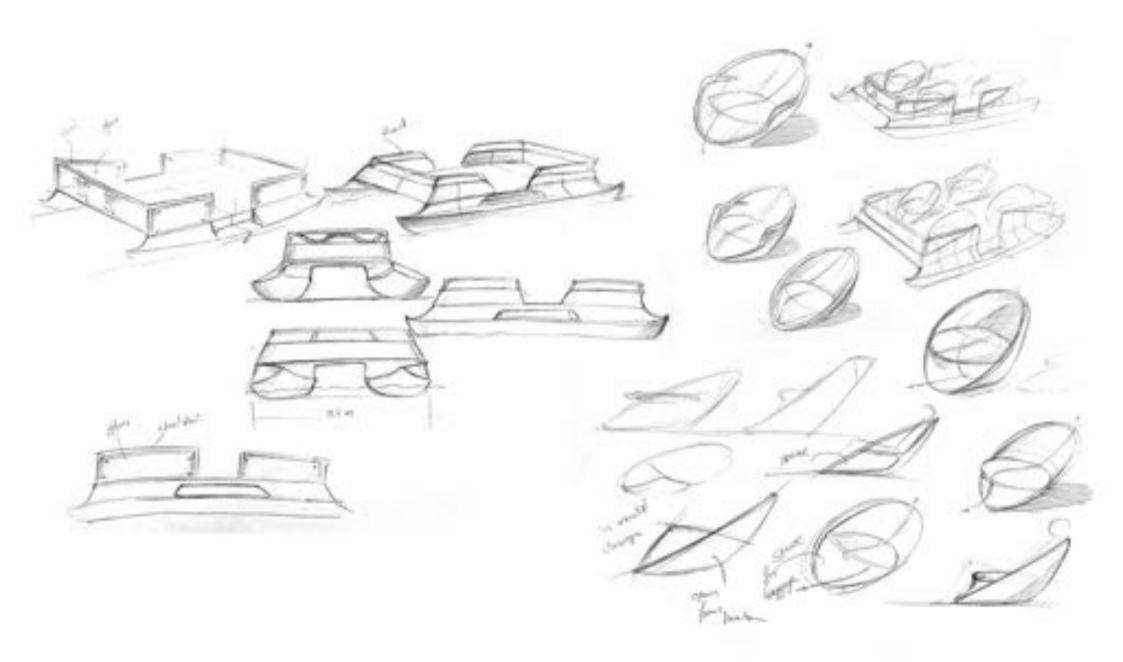
FINAL DESIGN DIRECTION

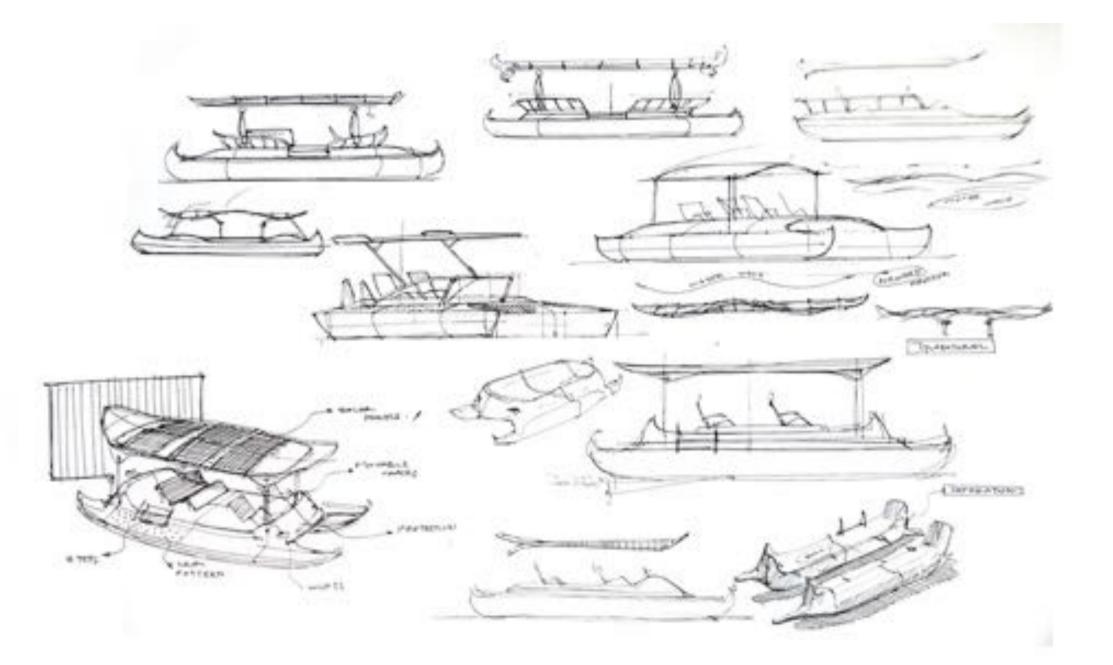
To take forward the canoe based design by making it more safe and comfortable as possible keeping experience of the user in mind.

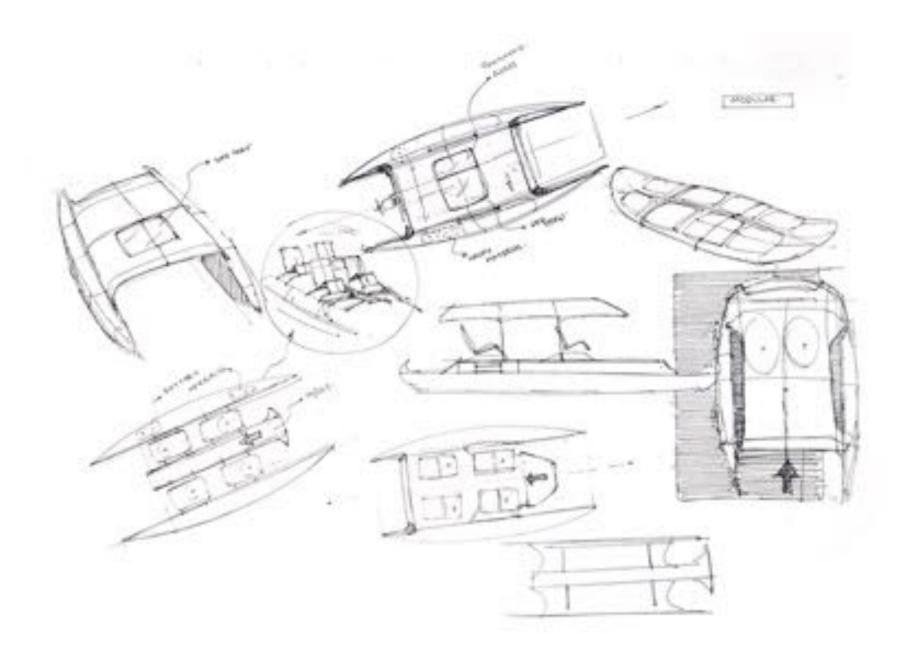






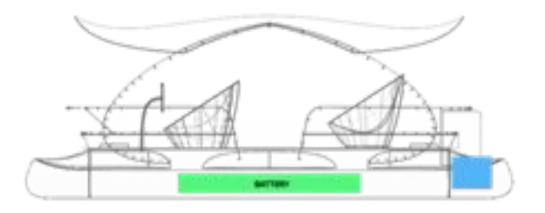


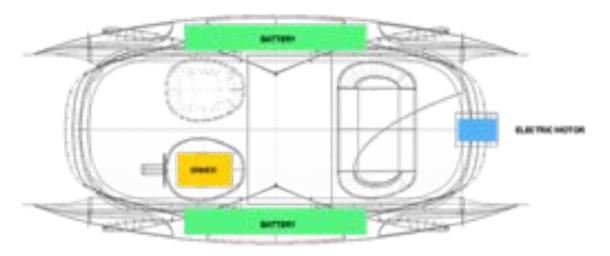












Packaging

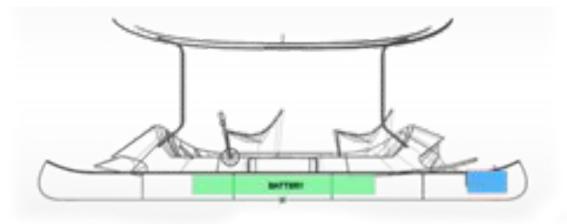


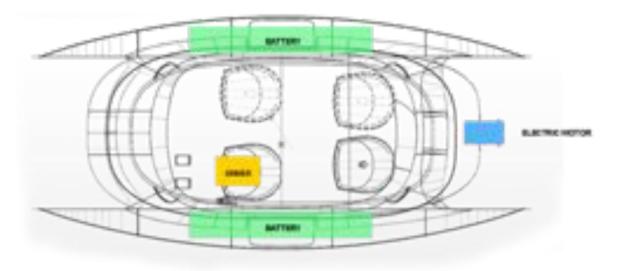












Packaging

