

ROBOBOAT



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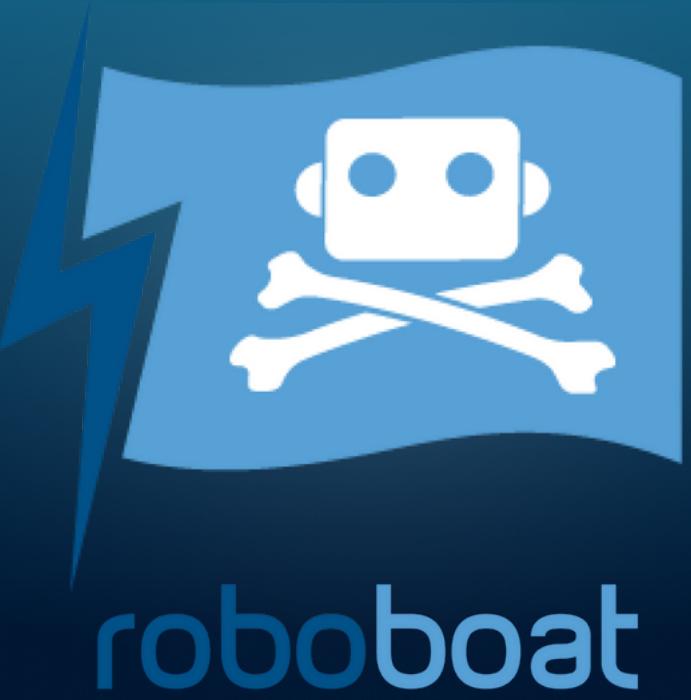
Member

Achmad Alfayed

Member

INTERNATIONAL ROBOBOAT COMPETITION

Is an international competition that is participated by participants from around the world to design an autonomous ship robot that can navigate itself to pass an obstacles



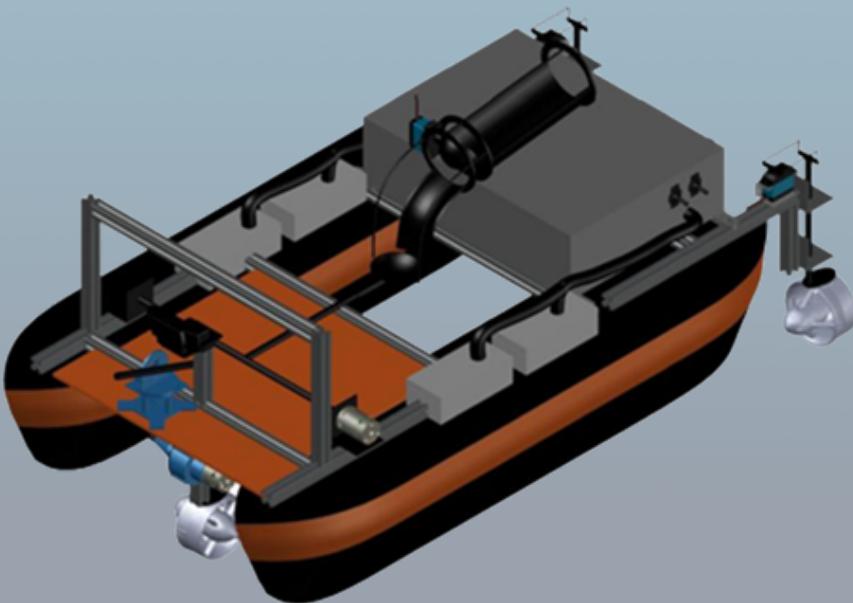
PURPOSE

- How IMU gets data and monitoring then generates distance from starting point
- How GPS receive data and execute data for robot navigation

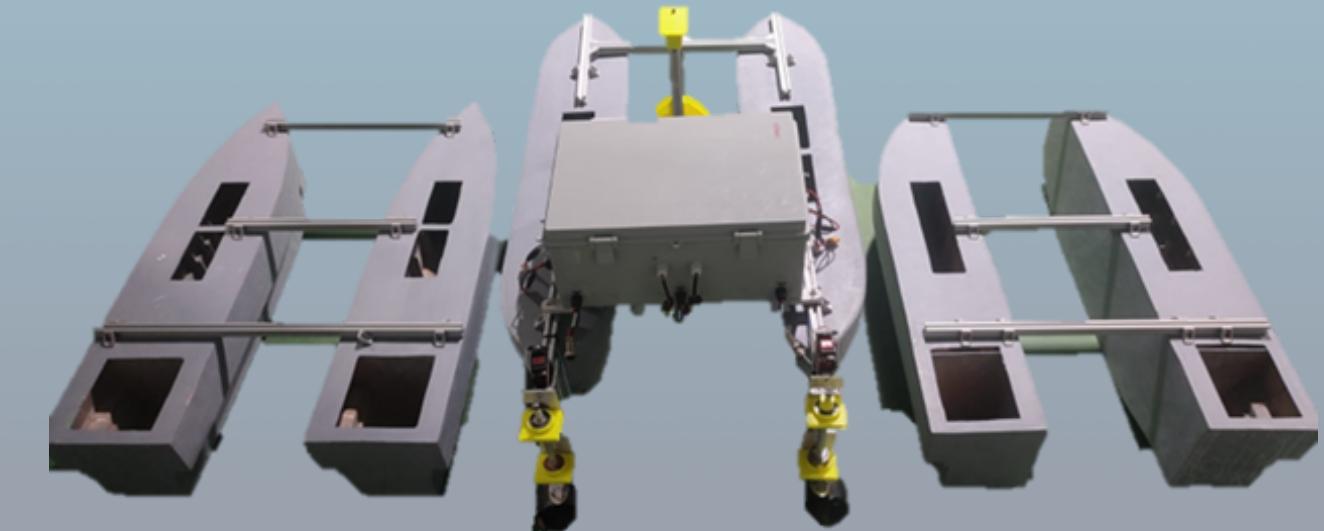
PROBLEM

- Be able to produce a path when the ship is moving
- Be able to measure the distance from the starting point

MECHANICAL

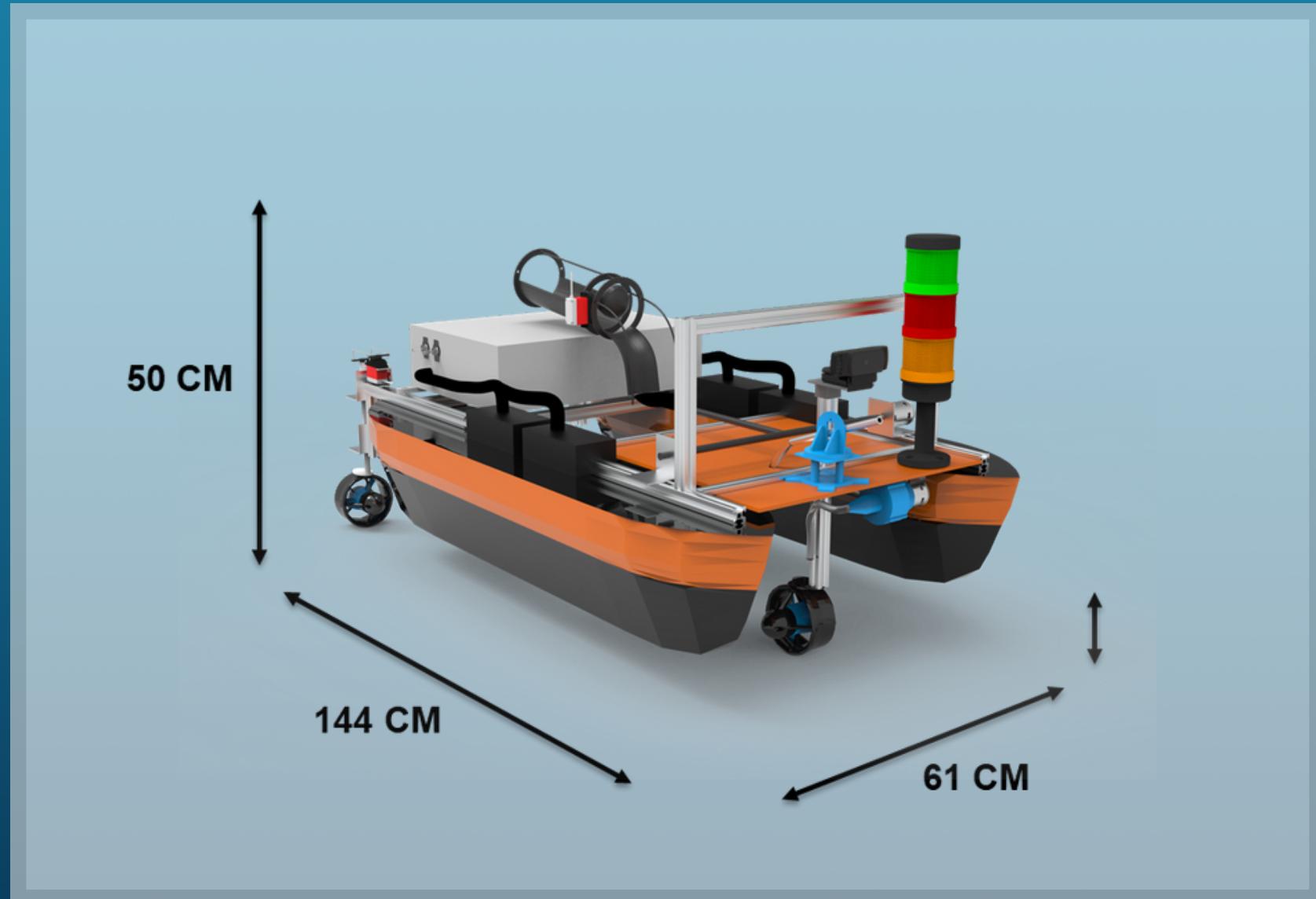


SHIP DESIGN



FABRICATION PROCESS

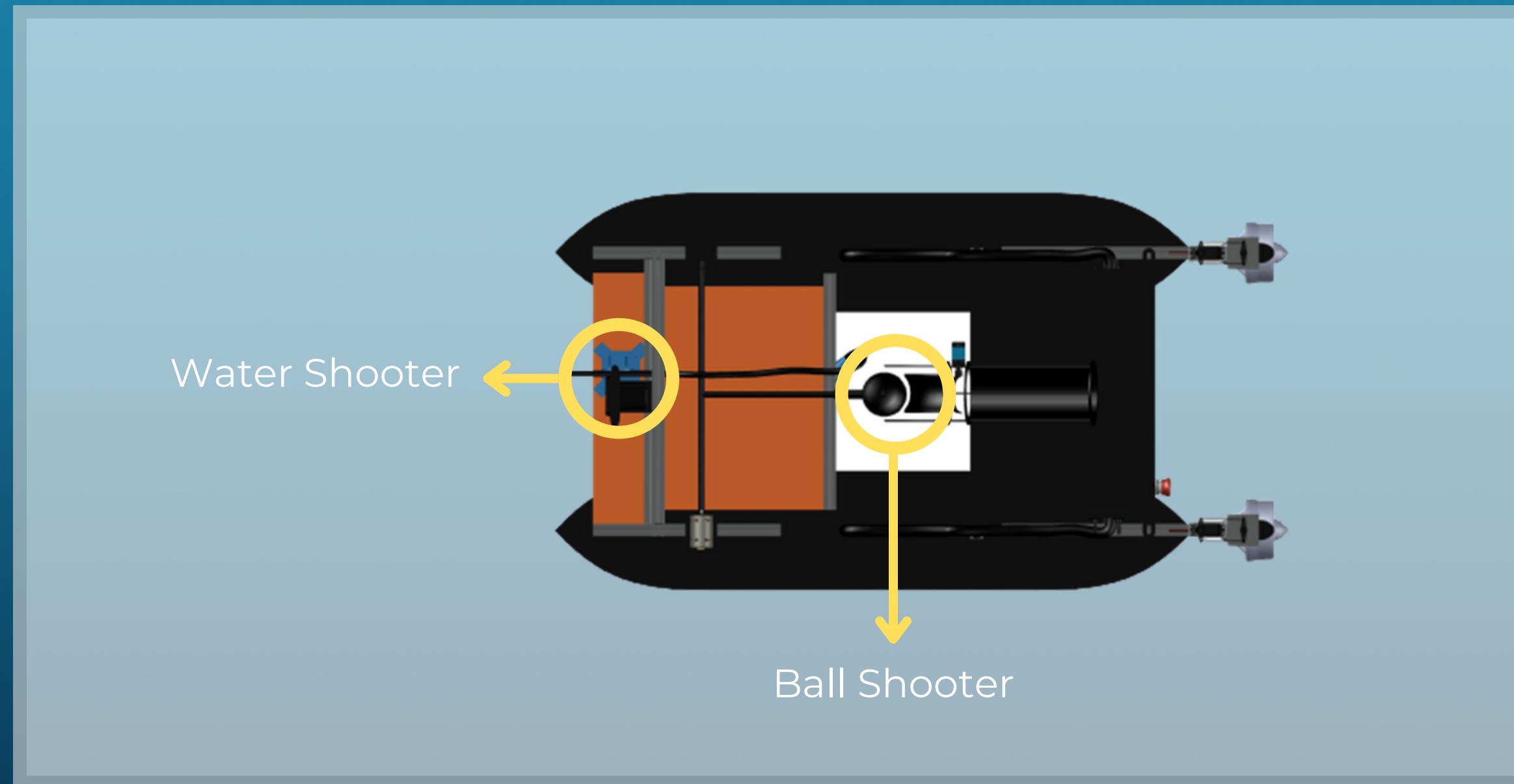
DIMENSION OF THE SHIP



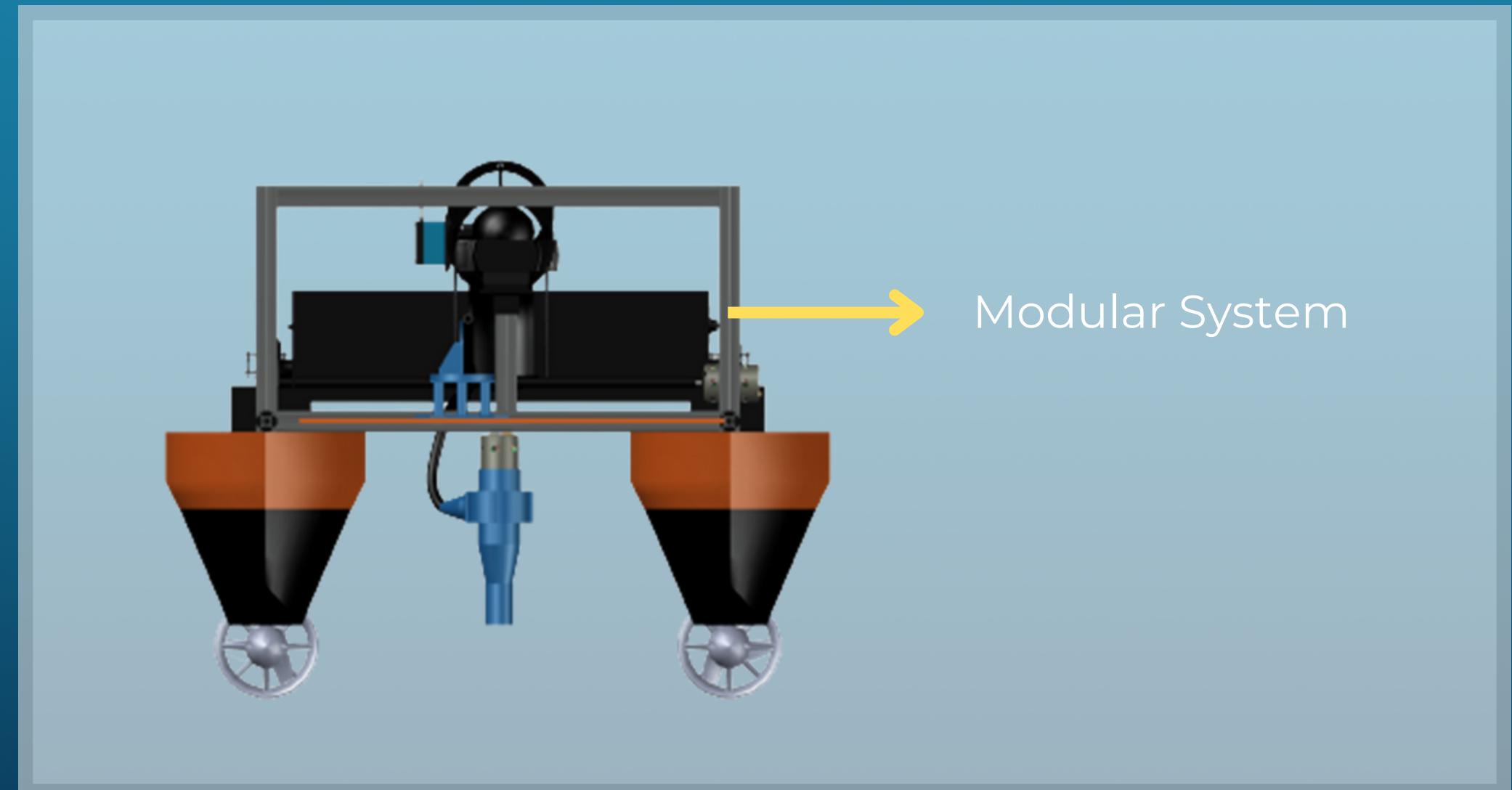
LOA	:	144 cm
W	:	61 cm
H	:	50 cm
DWL	:	12 cm
C _b	:	0.336
C _p	:	0.866
Displacement	:	21.9 kg



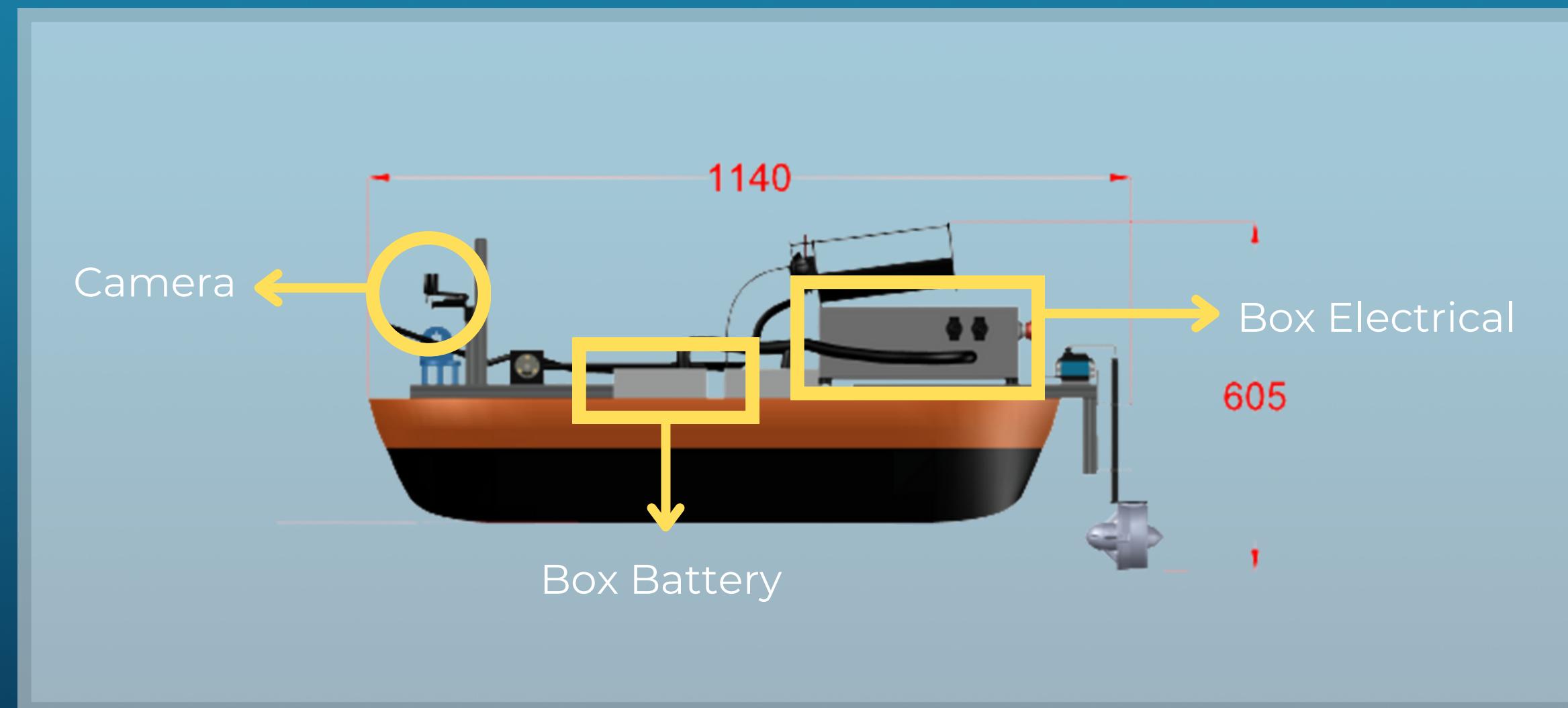
TOP VIEW OF SHIP



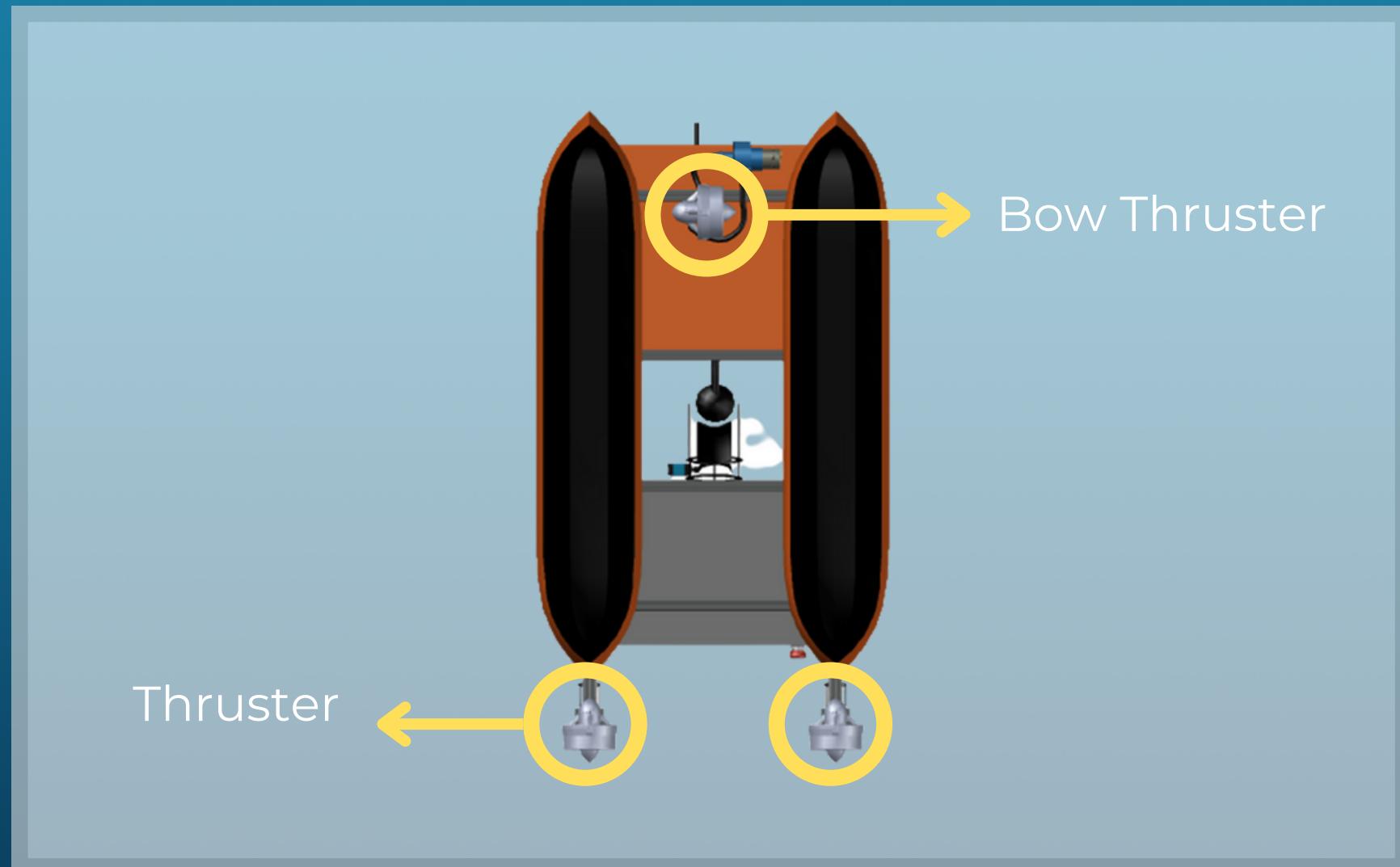
FRONT VIEW OF SHIP



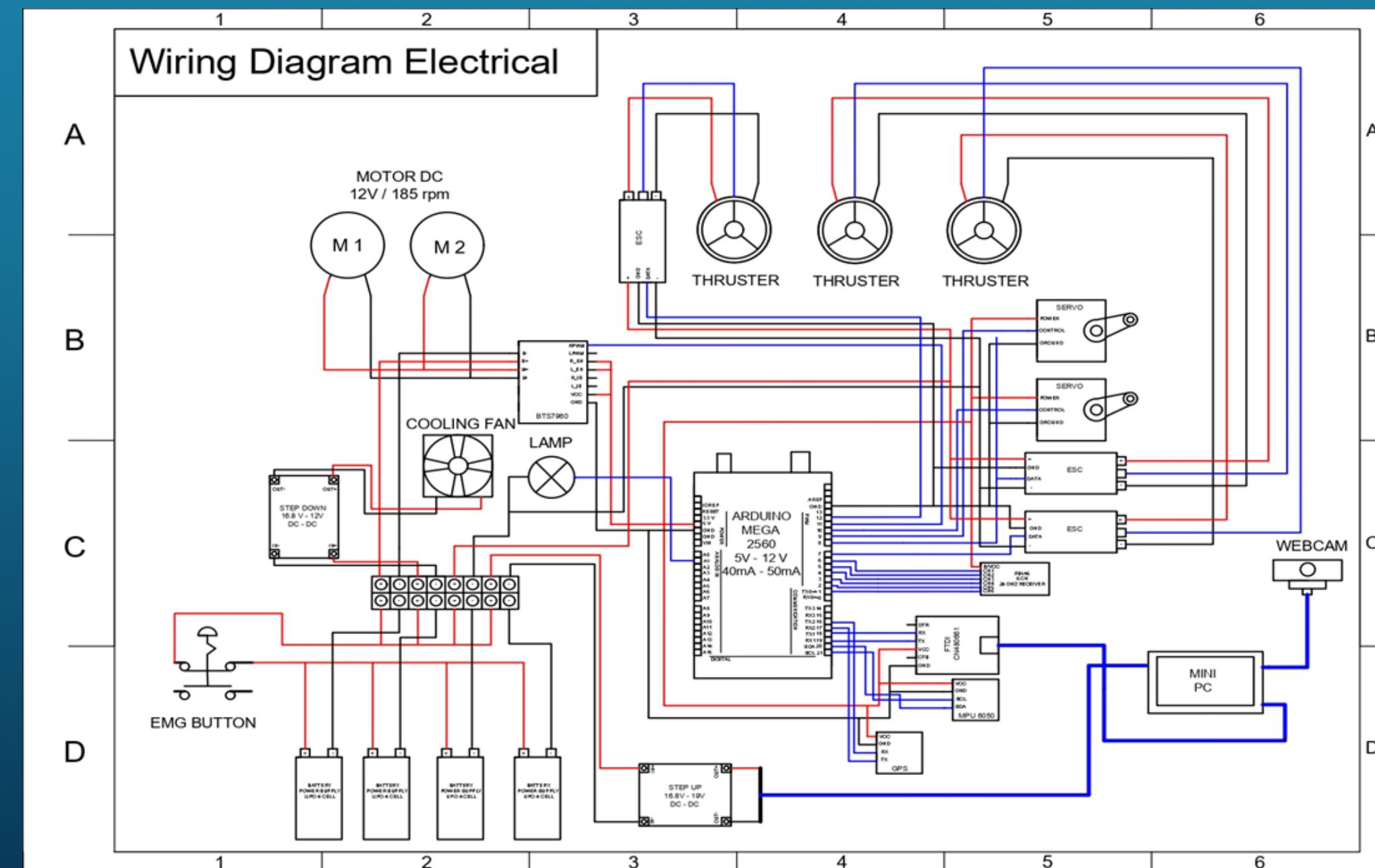
SIDE VIEW OF SHIP



BOTTOM VIEW OF SHIP



ELECTRICAL SYSTEM



AUTONOMOUS SYSTEM



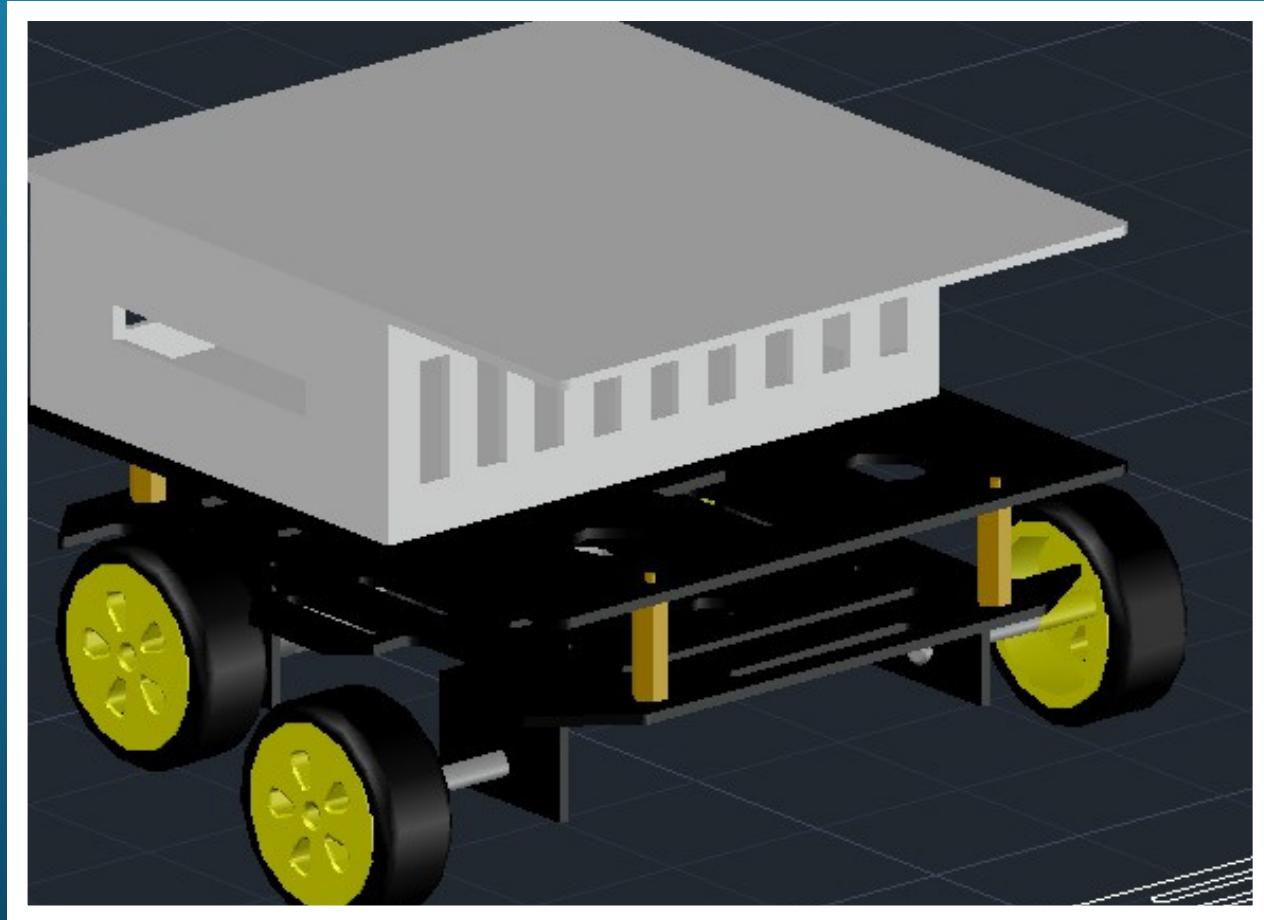
Main components

1. Yolov5 object detection method
2. IMU sensor
3. GPS module (in the research and development stage)

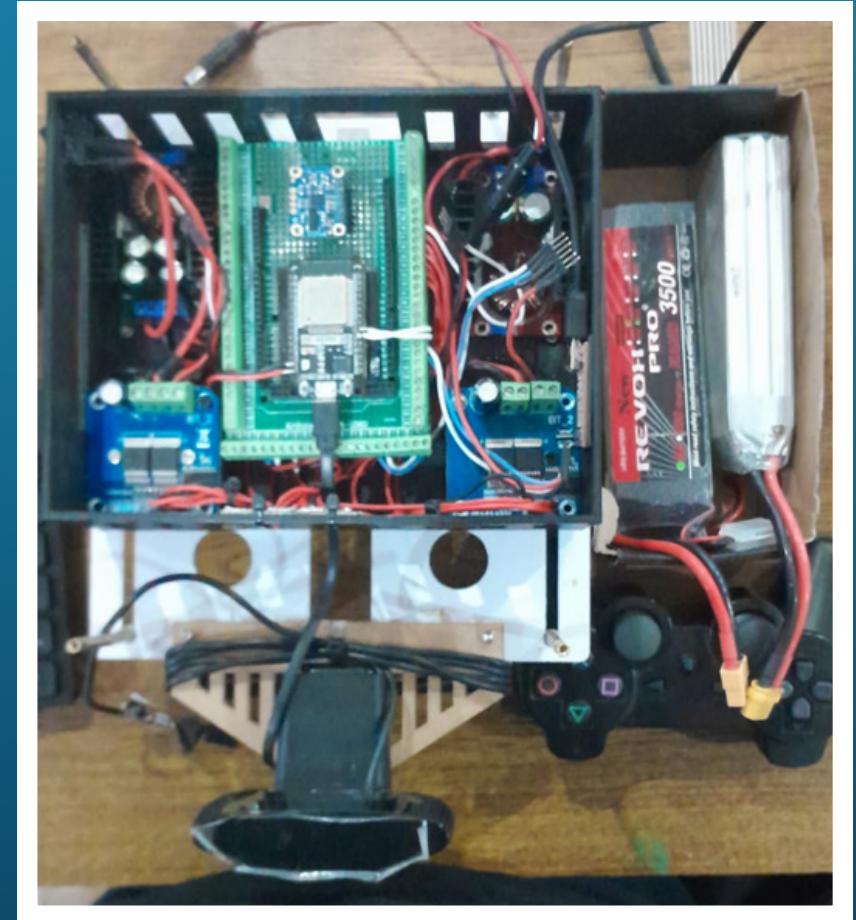
Robot Darat Simulation



Mechanical



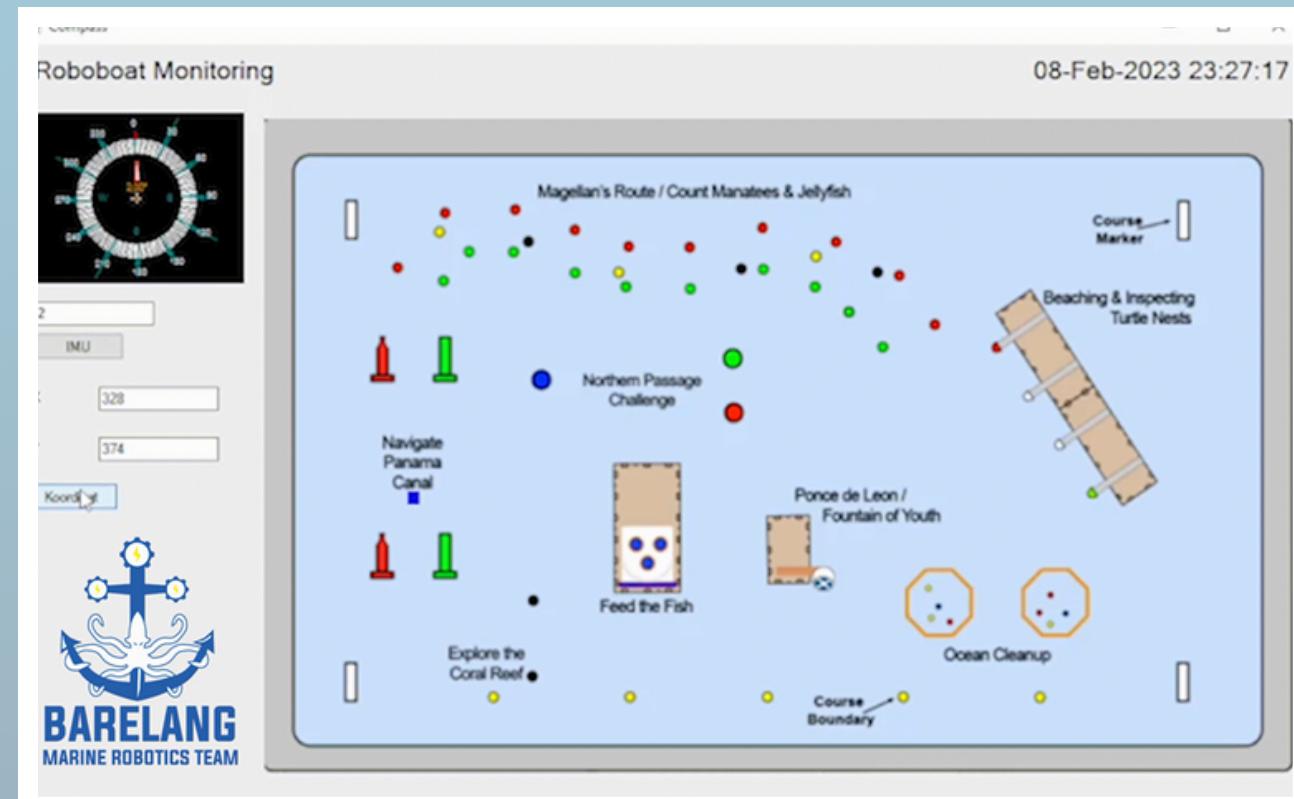
Design



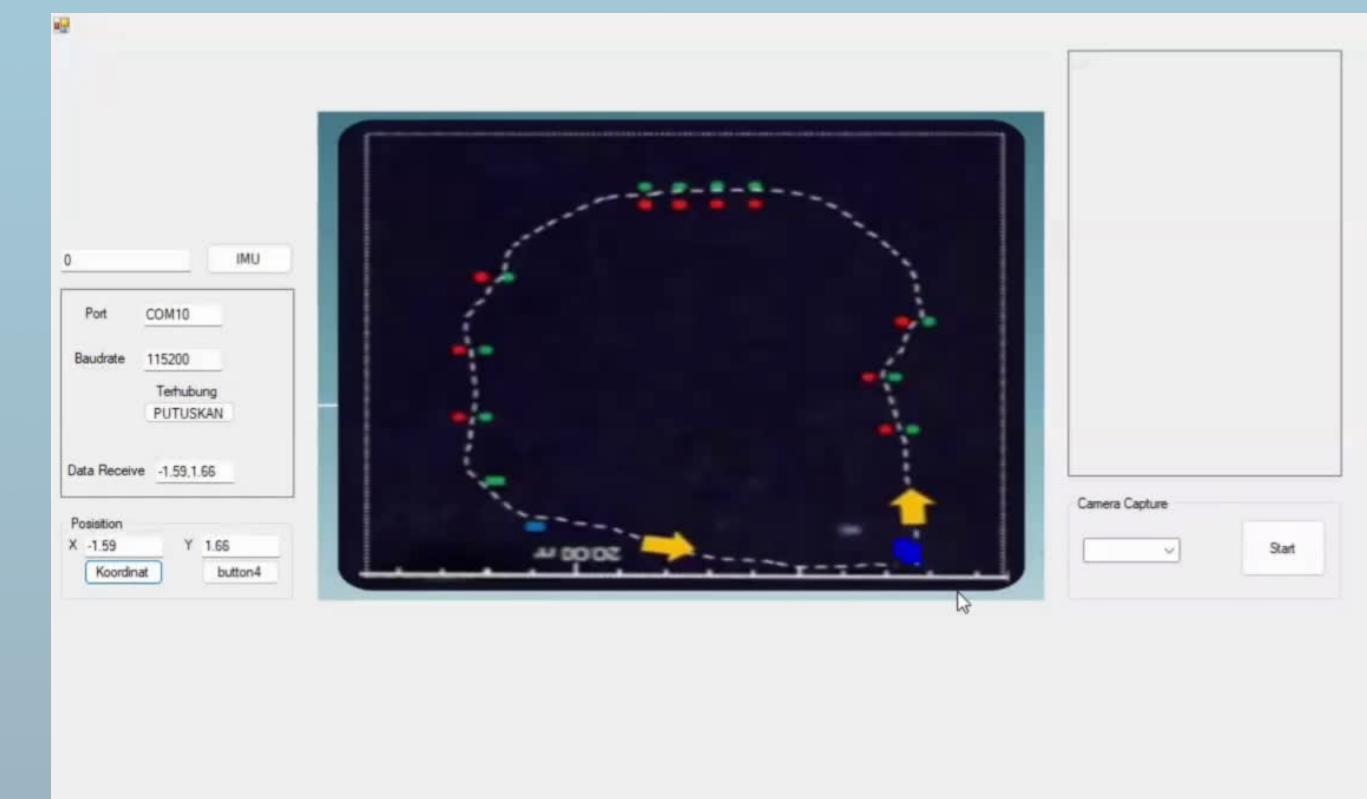
Electrical

Monitoring

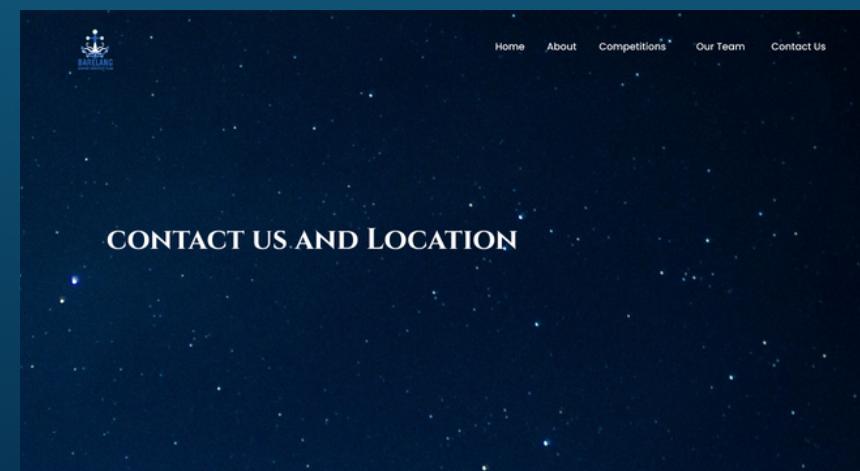
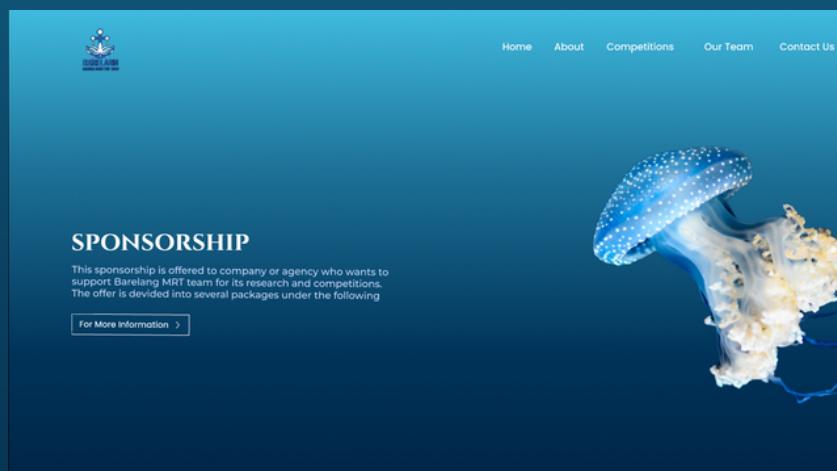
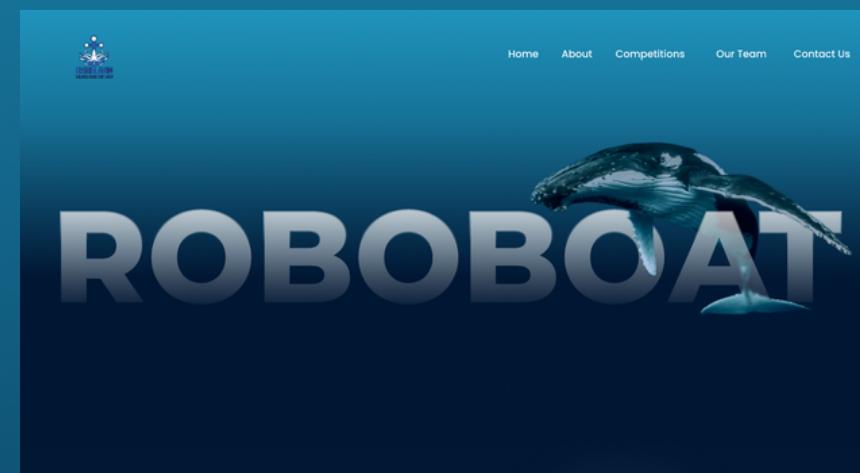
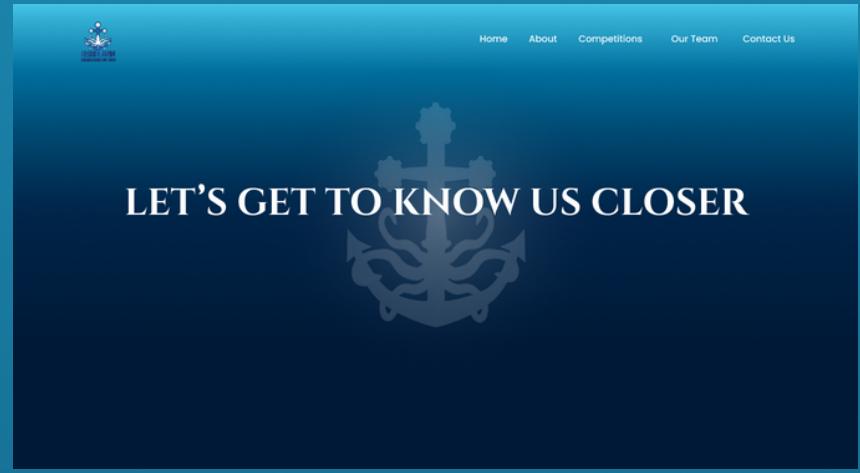
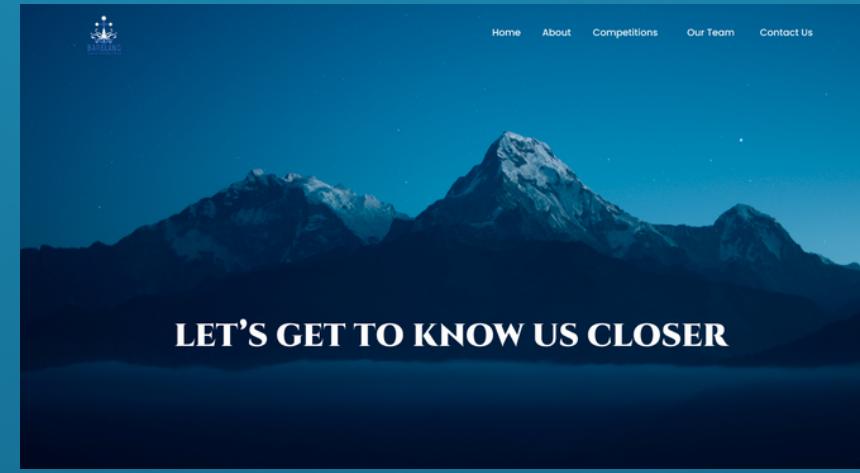
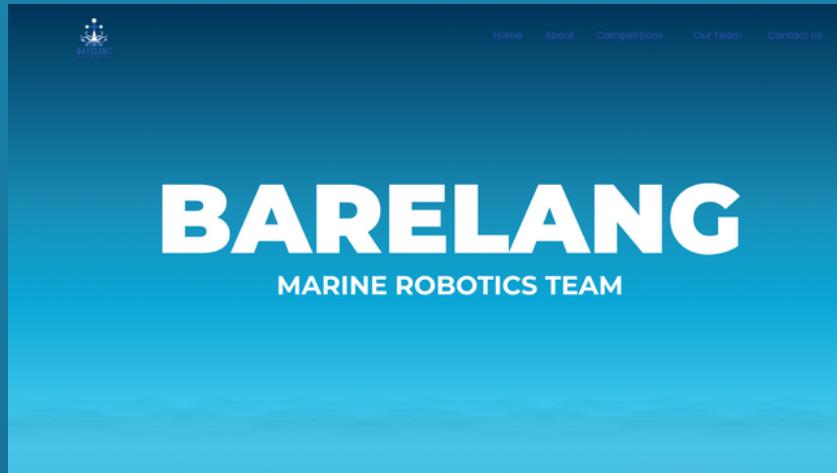
Then



Now (on progress)



Website Development (on progress)



THANK YOU