Challenge Competition Scoresheet

Judge Name:_____ Date:_____

Team:_____

A team's score will be totaled for the BEST <u>COMBINED</u> SCORE for all challenges completed within the allotted time.

> For Example:
> - LPV successfully leaves dock and completes Challenge #1
> - LPV returns to dock (autonomously or with intervention)
> - LPV has team intervention at the dock to modify code or equipment.
> - LPV is deployed to complete another challenge of their choosing (Challenge #3)
> - LPV completed a challenge (Challenge #3)
> - LPV returns to dock (autonomously or with intervention)
> - All Challenges successfully completed will be combined for total score.

1 hour will be provided to each team to attempt to complete as many challenges as possible. Teams will not be penalized for prior team's delaying the beginning of their time slot. Judges will have the final determination on "stopping the clock" during a run to make any modifications to the course that will not penalize a team.

Teams are permitted to return to the dock to modify their device or code during the competition run for no penalty.

Completion of Challenge #1 is required to record a score to competition.

If 20 minutes is attempted to complete a Challenge #1 without success, teams are permitted to continue to other tasks for an exhibition run. This exhibition run will not result in a competition score but allow teams to attempt the other challenges.

Any human intervention of remote-control intervention to complete challenge tasks may result in a deduction of points.

Water Line Validation: Is water line within or above the "Orange Band" on the LPV prior to competition run   No_____(-30 pts)

AIMM ICC — ARTIFICIAL INTELLIGENCE MARITIME MANEUVER INDIANA COLLEGIATE CHALLENGE
★ EST. 2023 ★

1 Gate

	Yes	No
Successfully Left Dock Untethered		
Successfully Entered Gate		
Successfully Exited Gate		
Contact with buoy(s) #		

	Yes	No
Task completed Autonomously		
GPS Agnostic		
IR/Radar Guidance		
Autonomous Navigation between Challenges		

2 Dodge

		Yes	No
Correct Buoy Navigation (right or left)	1		
	2		
	3		
	4		
Contact with buoy(s) #			

Time Bonus

Gate A-B	
Time	
Record Start Time "Entry"	
Exit Time	

	Yes	No
Fastest Time		

	Yes	No
Task completed Autonomously		
GPS Agnostic		
IR/Radar Guidance		
Autonomous Navigation between Challenges		

3 Evade

		Yes	No
LiDAr Sensor Evaded	1		
	2		

Time Bonus

Gate C-D	
Time	
Record Start Time "Entry"	
Exit Time	

	Yes	No
Fastest Time		

	Yes	No
Task completed Autonomously		
GPS Agnostic		
IR/Radar Guidance		
Autonomous Navigation between Challenges		

4 Identify

		Correct	
Color Specified X	Yes	No	
Purple			
Orange			
Yellow			
Blue			
Random Selection Bonus		Yes	
	Successful		

	Yes	No
Task completed Autonomously		
GPS Agnostic		
IR/Radar Guidance		
Autonomous Navigation between Challenges		

5 Deploy

	Yes	No
Sensor Successfully Deployed		

	Yes	No
Task completed Autonomously		
GPS Agnostic		
IR/Radar Guidance		
Autonomous Navigation between Challenges		

6 Launch

	Yes	No
Object Deployed		
Object launched approximately greater than 10' from target		
Object Reached Target		
Object Landed in Center Section		
Object Landed on Rim		
Object remainded on target following landing		

	Yes	No
Task completed Autonomously		
GPS Agnostic		
IR/Radar Guidance		
Autonomous Navigation between Challenges		

7 Recover

	Yes	No
Object Identified & Contacted		
Object Tethered to LPV		
Object Removed from Water		
Object delivered to Dock		

	Yes	No
Task completed Autonomously		
GPS Agnostic		
IR/Radar Guidance		
Autonomous Navigation between Challenges		

8 Receive

	Yes	No
Sensor Communicates with Base		
Data Provided to Judges		

9 Return

	Yes	No
LPV returned to base		

Total Time Bonus

	Yes
Complete a minimum of 4 challenges	
Total Scoring Run Time	
Number of Challenges Completed	%
Average Per-Task Time	

	Yes
Fastest Time	

	No
Fastest Time	

Fastest Time	x 60	=	Bonus
Your Time			
	x 60	=	

Task 6-9 & Time Bonus Total	
Task 1-5 Total	
Human Remote Intervention # X (-)5 pts	
Total	