



## Challenge Competition Scoresheet

Judge Name: \_\_\_\_\_ Date: \_\_\_\_\_

Team: \_\_\_\_\_

A team's score will be totaled for the BEST COMBINED 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)



<b>1 Gate</b>		Yes	No
Successfully Left Dock Untethered	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Successfully Entered Gate	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Successfully Exited Gate	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Contact with buoy(s) #	<input type="checkbox"/>	X	(-2 pts)
Task completed Autonomously		Yes	No
GPS Agnostic	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
IR/Radar Guidance	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Autonomous Navigation between Challenges	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
<b>2 Dodge</b>		Yes	No
Correct Buoy Navigation (right or left)	1	<input type="checkbox"/> 10 pts	<input type="checkbox"/> 0 pts
	2	<input type="checkbox"/> 10 pts	<input type="checkbox"/> 0 pts
	3	<input type="checkbox"/> 10 pts	<input type="checkbox"/> 0 pts
	4	<input type="checkbox"/> 10 pts	<input type="checkbox"/> 0 pts
Contact with buoy(s) #	<input type="checkbox"/>	x	(-2 pts)
<b>Time Bonus</b>			
Gate A-B			
Time <input type="text"/>			
Record	Start Time "Entry"		
	Exit Time	Yes	No
	Fastest Time	<input type="checkbox"/> 15 pts	<input type="checkbox"/> 0 pts
Task completed Autonomously		Yes	No
GPS Agnostic	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
IR/Radar Guidance	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Autonomous Navigation between Challenges	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
<b>3 Evade</b>		Yes	No
LIDar Sensor Evaded	1	<input type="checkbox"/> 15 pts	<input type="checkbox"/> 0 pts
	2	<input type="checkbox"/> 15 pts	<input type="checkbox"/> 0 pts
<b>Time Bonus</b>			
Gate C-D			
Time <input type="text"/>			
Record	Start Time "Entry"		
	Exit Time	Yes	No
	Fastest Time	<input type="checkbox"/> 15 pts	<input type="checkbox"/> 0 pts
Task completed Autonomously		Yes	No
GPS Agnostic	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
IR/Radar Guidance	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Autonomous Navigation between Challenges	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
<b>4 Identify</b>		Correct	
Color Specified	X	Yes	No
Purple	<input type="checkbox"/>	15 pts	<input type="checkbox"/> 0 pts
Orange	<input type="checkbox"/>	15 pts	<input type="checkbox"/> 0 pts
Yellow	<input type="checkbox"/>	15 pts	<input type="checkbox"/> 0 pts
Blue	<input type="checkbox"/>	15 pts	<input type="checkbox"/> 0 pts
Random Selection Bonus	<input type="checkbox"/>	Successful	Yes
			25 pts
Task completed Autonomously		Yes	No
GPS Agnostic	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
IR/Radar Guidance	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Autonomous Navigation between Challenges	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
<b>5 Deploy</b>		Yes	No
Sensor Successfully Deployed	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
Task completed Autonomously		Yes	No
GPS Agnostic	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
IR/Radar Guidance	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Autonomous Navigation between Challenges	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts

<b>6 Launch</b>		Yes	No
Object Deployed	<input type="checkbox"/>	15 pts	<input type="checkbox"/> 0 pts
Object launched approximately greater than 10' from target	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
Object Reached Target	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
Object Landed in Center Section	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
Object Landed on Rim	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
Object remained on target following landing	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
Task completed Autonomously		Yes	No
GPS Agnostic	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
IR/Radar Guidance	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Autonomous Navigation between Challenges	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
<b>7 Recover</b>		Yes	No
Object Identified & Contacted	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
Object Tethered to LPV	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
Object Removed from Water	<input type="checkbox"/>	25 pts	<input type="checkbox"/> 0 pts
Object delivered to Dock	<input type="checkbox"/>	20 pts	<input type="checkbox"/> 0 pts
Task completed Autonomously		Yes	No
GPS Agnostic	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
IR/Radar Guidance	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
Autonomous Navigation between Challenges	<input type="checkbox"/>	5 pts	<input type="checkbox"/> 0 pts
<b>8 Receive</b>		Yes	No
Sensor Communicates with Base	<input type="checkbox"/>	20 pts	<input type="checkbox"/> 0 pts
Data Provided to Judges	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
<b>8 Return</b>		Yes	No
LPV returned to base	<input type="checkbox"/>	10 pts	<input type="checkbox"/> 0 pts
<b>Total Time Bonus</b>			
Complete a minimum of 4 challenges		Yes	<input type="checkbox"/>
Total Scoring Run Time		<input type="text"/>	
Number of Challenges Completed		%	<input type="text"/>
Average Per-Task Time		<input type="text"/>	
Fastest Time		Yes	<input type="checkbox"/> 60 pts
Fastest Time		No	<input type="checkbox"/>
Fastest Time		Your Time x 60 = Bonus	
<input type="text"/>		<input type="text"/>	
<input type="text"/>		<input type="text"/>	
Task 6-9 & Time Bonus Total		<input type="text"/>	
Task 1-5 Total		<input type="text"/>	
Human Remote Intervention	#	X	<input type="checkbox"/> (-)5 pts
Total			