Challenge Competition Scoresheet

udge Name:	Date:
Геат:	

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)

10.1.						Cl I					
1 Gate	Yes	_	No			6 Launch	Yes	_	No		
Successfully Left Dock Untethered		5 pts		0 pts		Object Deployed	\perp	15 pts		0 pts	
Successfully Entered Gate		5 pts		0 pts		Object launched approximately greater than 10' from target	$oldsymbol{\perp}$	10 pts		0 pts	
Successfully Exited Gate		5 pts		0 pts							
				i .		Object Reached Target		10 pts		0 pts	
Contact with buoy(s)	#	х	1.1	2 pts		Object Landed in Center Section		10 pts		0 pts	
Contact with buoy(s)		^	(-)	_ pt3			+				
		-	-			Object Landed on Rim	\perp	10 pts		0 pts	
	Yes	_	No			Object remainded on target following landing	ᆜ	10 pts		0 pts	
Task completed Autonomously		10 pts		0 pts					7		
GPS Agnostic		5 pts		0 pts			Yes		No		
IR/Radar Guidance		5 pts		0 pts				+			
			-		 		-				
Autonomous Navigation between Challenges		10 pts		0 pts		Task completed Autonomously		10 pts		0 pts	
						GPS Agnostic		5 pts	,	0 pts	
2 Dodge	Yes		No			IR/Radar Guidance		5 pts		0 pts	
Correct Buoy Navigation (right or left)		10 pts	_	0 pts		Autonomous Navigation between Challenges		10 pts		0 pts	
correct budy wavigation (right or left)	1			-		Autonomous wavigation between chancinges	+	_10 pts		O Pt3	_
	2	10 pts		0 pts							
	3	10 pts		0 pts		7 Recover	Yes		No		
	4	10 pts		0 pts		Object Identified & Contacted		10 pts		0 pts	
				<u> </u>		Object Tethered to LPV		10 pts		0 pts	
Cantant with humila			()	2			_				_
Contact with buoy(s)	#	х	(-)	2 pts		Object Removed from Water		25 pts		0 pts	_
						Object delivered to Dock		20 pts		0 pts	
Time Bonus							.				
Gate A-B							Yes		No		
						Task assert to the transfer	162			0.04-	
Time						Task completed Autonomously	\perp	10 pts		0 pts	
Record Start Time "Entry"						GPS Agnostic	L	5 pts		0 pts	
Exit Time	Yes		No			IR/Radar Guidance		5 pts		0 pts	
Fastest Time		15 pts		0 pts		Autonomous Navigation between Challenges	\top	10 pts		0 pts	
rastest time		13 pts		lobis		Autonomous Navigation between Challenges	+	To bre	\vdash	o pts	
							\rightarrow				
	Yes		No			8 Receive	Yes	,	No		
Task completed Autonomously		10 pts		0 pts		Sensor Communicates with Base		20 pts		0 pts	
GPS Agnostic		5 pts		0 pts		Data Provided to Judges	-	10 pts		0 pts	
						Data Provided to Judges	_	To brz	ullet	ο μις	
IR/Radar Guidance		5 pts		0 pts							
Autonomous Navigation between Challenges		10 pts		0 pts		8 Return	Yes	i	No		
						LPV returned to base		10 pts		0 pts	
			-		-	El Victurios to base	+	10 pts		Opts	_
3 Evade	Yes		No								
LiDAr Sensor Evaded	1	15 pts	L -	0 pts		Total Time Bonus	Yes	,			
	2	15 pts		0 pts		Complete a minimum of 4 challenges					
						, and a manufacture of the state of the stat		-			
							_				
Time Bonus				_		Total Scoring Run Time					
Gate C-D											
Time						Number of Challenges Completed		9/			
						Number of Chanenges Completed		70		_	
Record Start Time "Entry"	_										
Exit Time	Yes		No								
				0 pts						•	
Fastest Time		15 pts		opts						-	
						Average Per-Task Time					
	Yes		No								
Tools as an elected Asstances and		_		0 4							
Task completed Autonomously		10 pts		0 pts						-	
GPS Agnostic		5 pts		0 pts		Fastest Time		Yes			
IR/Radar Guidance		F 4 -		0 pts							
Autonomous Navigation between Challenges		o pts			I - I			103	60 pts		
Autonomous Wavigation between chancinges		5 pts		Onts					60 pts		
		5 pts 10 pts		0 pts			T:		60 pts	.	
		10 pts		0 pts		Fastes	t Time		60 pts		
4 Identify				0 pts			t Time		60 pts		
4 Identify Color Specified		10 pts	No	0 pts		Fastes	t Time		60 pts		
Color Specified	X Yes	10 pts	No			Factort Time		e No]	-	
Color Specified Purple	X Yes	10 pts Correct 15 pts	No	0 pts		<u>Fastest Time</u>	t Time	e No	60 pts Bonus	-	
Color Specified Purple Orange	X Yes	10 pts Correct 15 pts 15 pts	No	0 pts 0 pts		Factort Time		e No]		
Color Specified Purple	X Yes	10 pts Correct 15 pts	No	0 pts		<u>Fastest Time</u>		e No]	-	
Color Specified Purple Orange Yellow	X Yes	10 pts Correct 15 pts 15 pts 15 pts	No	0 pts 0 pts 0 pts		<u>Fastest Time</u>	× 60	No =]	-	
Color Specified Purple Orange	X Yes	10 pts Correct 15 pts 15 pts	No	0 pts 0 pts		<u>Fastest Time</u>		No =]	- - - - - - - - - - - - - - - - - - -	
Color Specified Purple Orange Yellow Blue	X Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts	No	0 pts 0 pts 0 pts		<u>Fastest Time</u>	× 60	No =]		
Color Specified Purple Orange Yellow	X Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts Yes	No	0 pts 0 pts 0 pts		<u>Fastest Time</u>	× 60	No =]		
Color Specified Purple Orange Yellow Blue	X Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts Yes	No	0 pts 0 pts 0 pts		<u>Fastest Time</u>	× 60	No =]	-	
Color Specified Purple Orange Yellow Blue	X Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts Yes	No	0 pts 0 pts 0 pts		<u>Fastest Time</u>	× 60	No =]		
Color Specified Purple Orange Yellow Blue	X Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts Yes	No 25 pts	0 pts 0 pts 0 pts		Fastest Time Your Time	x 60	= No	Bonus	-	
Color Specified Purple Orange Yellow Blue Random Selection Bonus	X Yes Success Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts Yes sful	No 25 pts	0 pts 0 pts 0 pts 0 pts		Fastest Time Your Time	x 60	= No	Bonus		
Color Specified Purple Orange Yellow Blue	X Yes Success Yes	10 pts Correct 15 pts 10 pts	No 25 pts	0 pts 0 pts 0 pts 0 pts 0 pts		Fastest Time Your Time	x 60	= No	Bonus		
Color Specified Purple Orange Yellow Blue Random Selection Bonus	X Yes Success Yes	10 pts Correct 15 pts 10 pts	No 25 pts	0 pts 0 pts 0 pts 0 pts 0 pts		Fastest Time Your Time	x 60	= No	Bonus		
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic	X Yes Success Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 15 pts 5 full 10 pts 5 pts	No 25 pts	0 pts 0 pts 0 pts 0 pts 0 pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus Bonus Bonus Fask 1-5	Total	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance	X Yes Success Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 15 pts 5 pts 5 pts 5 pts 5 pts	No 25 pts	0 pts 0 pts 0 pts 0 pts 0 pts 0 pts 0 pts		Fastest Time Your Time	x 60	= No	Bonus Bonus Bonus Fask 1-5		
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic	X Yes Success Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 15 pts 5 full 10 pts 5 pts	No 25 pts	0 pts 0 pts 0 pts 0 pts 0 pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus Bonus Bonus Fask 1-5	Total	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance	X Yes Success Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 15 pts 5 pts 5 pts 5 pts 5 pts	No 25 pts	0 pts 0 pts 0 pts 0 pts 0 pts 0 pts 0 pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total	
Color Specified Purple Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges	X Yes Success Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 15 pts 9 pts 10 pts 5 pts 5 pts 10 pts	No 25 pts No	0 pts 0 pts 0 pts 0 pts 0 pts 0 pts 0 pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges	X Yes Success Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 9 yes 10 pts 5 pts 10 pts	No 25 pts No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges	X Yes Success Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 15 pts 9 pts 10 pts 5 pts 5 pts 10 pts	No 25 pts No No	0 pts 0 pts 0 pts 0 pts 0 pts 0 pts 0 pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges	X Yes Success Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 9 yes 10 pts 5 pts 10 pts	No 25 pts No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges	X Yes Success Yes Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 16 pts 17 pts 18 pts 19 pts 10 pts 10 pts 10 pts 10 pts 10 pts 10 pts	No 25 pts No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges Deploy Sensor Successfully Deployed	X Yes Success Yes Yes Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 15 pts 15 pts 10 pts 5 pts 10 pts 10 pts	No 25 pts No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges 5 Deploy Sensor Successfully Deployed Task completed Autonomously	X Yes Success Yes Yes Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 15 pts 5 pts 5 pts 5 pts 10 pts 10 pts 10 pts	No 25 pts No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges 5 Deploy Sensor Successfully Deployed	X Yes Success Yes Yes Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 15 pts 5 pts 5 pts 5 pts 10 pts 10 pts 10 pts	No 25 pts No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges Sensor Successfully Deployed Task completed Autonomously GPS Agnostic	X Yes Success Yes Yes Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 5 pts 5 pts 5 pts 10 pts 10 pts 10 pts 5 pts 5 pts 10 pts	No 25 pts No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges Deploy Sensor Successfully Deployed Task completed Autonomously GPS Agnostic IR/Radar Guidance	X Yes Success Yes Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 16 pts 17 pts 18 pts 19 pts 10 pts	No No No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges Sensor Successfully Deployed Task completed Autonomously GPS Agnostic	X Yes Success Yes Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 5 pts 5 pts 5 pts 10 pts 10 pts 10 pts 5 pts 5 pts 10 pts	No No No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
Color Specified Purple Orange Yellow Blue Random Selection Bonus Task completed Autonomously GPS Agnostic IR/Radar Guidance Autonomous Navigation between Challenges Deploy Sensor Successfully Deployed Task completed Autonomously GPS Agnostic IR/Radar Guidance	X Yes Success Yes Yes	10 pts Correct 15 pts 15 pts 15 pts 15 pts 16 pts 17 pts 18 pts 19 pts 10 pts	No No No No	O pts		Fastest Time Your Time	x 60 x 60	No = = = = = = T	Bonus	Total (-)5 pts	
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