

RoboBoat 2017 scoresheet

Static Judging

Performance Static	Max Pts	Daytona Beach Homesc hoolers	Embry-Riddle Aeronautical University	Georgia Institute of Technology Aerospace	Hagerty High School	Institut Teknologi Sepuluh Nopember	Tecnológico de Monterrey	Universitas Indonesia	University of Iowa	University of Michigan
Utility of Web Site	50	30	36	36	32	37	29	37	34	36
Technical Merit (paper)	50	31	42	42	35	37	36	41	33	45
Written Style (paper)	50	34	43	42	38	38	38	41	38	45
Technical Accomplishment (static)	75	58	69	61	55	57	52	48	39	63
Craftsmanship (static)	75	58	64	60	66	55	49	53	38	63
Team Uniform (static)	10	8	9	8	6	10	10	10	5	10
Video presentation (video)	25	18	20	19	18	19	21	19	15	24
Discretionary points	40	20	24	17	26	22	26	16	19	19
Sub-Total		257	308	284	276	274	260	266	221	305
Rank		8	1	3	4	5	7	6	9	2

Course A - Qualifications

	Max Pts	Daytona Beach Homesc hoolers	Embry-Riddle Aeronautical University	Georgia Institute of Technology Aerospace	Hagerty High School	Institut Teknologi Sepuluh Nopember	Tecnológico de Monterrey	Universitas Indonesia	University of Iowa	University of Michigan
Dry weight	lbs	34	55	126	38	66	57	46		
<u>Dry weight points</u>	-250...+150	116	95	-328	113	84	93	104	0	0
Generated thrust	lbs	6	16		17	24	35	7		
<u>Generated thrust points</u>	0...2200	16	29	0	44	36	61	14	0	0
Autonomous Navigation	100									
Mandatory tasks sub-total		132	124	-328	157	120	154	118	0	0
Entered thru gates	50	50		50						

RoboBoat 2017 scoresheet

Circle blue buoy	100	100		100							
Exited thru gates	100	100				100					
Navigate through speed challenge	sec	65				53					
<u>Speed gate points</u>	0...250	185	0	0	0	197	0	0	0	0	0
<u>Fastest Vehicle</u>	250	0	0	0	0	250	0	0	0	0	0
Speed Challenge sub-total		435	0	150	0	547	0	0	0	0	0
Launched UAV	250										
Entered first bay with active pinger	250										
Entered the second bay as indicated by 7-segment display	250										
Uploaded 7-seg shape	250										
Recovered UAV	250										
<u>Perfect docking</u>	750	0	0	0	0	0	0	0	0	0	0
Docking sub-total		0	0	0	0	0	0	0	0	0	0
Entered obstacle field	100	100	100								
Circled can buoy	200										
Exited obstacle field	200	200									
Nb buoys hit/straggled	Nb	3	1								
<u>Buoys Points</u>	200	50	200	0	0	0	0	0	0	0	0
<u>Perfect Find The Path</u>	400	0	0	0	0	0	0	0	0	0	0
Find The Path sub-total		350	300	0	0	0	0	0	0	0	0
Entered carousel between two flags	50										
Circle the floating platform while between two flags for a complete rotation	250										
Enter carousel between the correct flags on first attempt	150										
Nb flags hit	Nb										
<u>Flag points</u>	50	0	300	0	0	0	0	0	0	0	0
Perfect Follow the Leader	500	0	0	0	0	0	0	0	0	0	0
Follow the Leader sub-total		0	300	0	0	0	0	0	0	0	0
Make it back to the dock (after attempting all challenges)	500										
Finish all tasks with T seconds left on the clock	seconds										
<u>Bonus time</u>	0...1200	0	0	0	0	0	0	0	0	0	0
Return to dock sub-total		0	0	0	0	0	0	0	0	0	0
Total		917	724	-178	157	667	154	118	0	0	0
Rank		1	2	9	4	3	5	6	7	7	7

RoboBoat 2017 scoresheet

Course B - Qualifications

	Max Pts	Daytona Beach Homeschoolers	Embry-Riddle Aeronautical University	Georgia Institute of Technology Aerospace	Hagerty High School	Institut Teknologi Sepuluh Nopember	Tecnológico de Monterrey	Universitas Indonesia	University of Iowa	University of Michigan
Dry weight	lbs	36	55	125	38	65	65	47		96
<u>Dry weight points</u>	-250...+150	115	95	-325	112	85	85	103	0	28
Generated thrust	lbs	10	16	15	17		35	24		7
<u>Generated thrust points</u>	0...2200	27	29	12	43	0	53	50	0	7
Autonomous Navigation	100									
Mandatory tasks sub-total		141	124	-313	155	85	138	153	0	35
Entered thru gates	50	50		50		50				
Circle blue buoy	100	100		100		100				
Exited thru gates	100	100		50		50				
Navigate through speed challenge	sec	239		152		98				
<u>Speed gate points</u>	0...250	11	0	98	0	152	0	0	0	0
<u>Fastest Vehicle</u>	250	0	0	0	0	250	0	0	0	0
Speed Challenge sub-total		261	0	298	0	602	0	0	0	0
Launched UAV	250									
Entered first bay with active pinger	250									
Entered the second bay as indicated by 7-segment display	250									
Uploaded 7-seg shape	250									
Recovered UAV	250									
<u>Perfect docking</u>	750	0	0	0	0	0	0	0	0	0
Docking sub-total		0	0	0	0	0	0	0	0	0
Entered obstacle field	100			100						
Circled can buoy	200									
Exited obstacle field	200									
Nb buoys hit/straggled	Nb			3						
<u>Buoys Points</u>	200	0	0	50	0	0	0	0	0	0
<u>Perfect Find The Path</u>	400	0	0	0	0	0	0	0	0	0
Find The Path sub-total		0	0	150	0	0	0	0	0	0
Entered carousel between two flags	50									

RoboBoat 2017 scoresheet

Circle the floating platform while between two flags for a complete rotation	250									
Enter carousel between the correct flags on first attempt	150									
Nb flags hit	Nb									
<u>Flag points</u>	50	0	0	150	0	0	0	0	0	0
Perfect Follow the Leader	500	0	0	0	0	0	0	0	0	0
Follow the Leader sub-total		0	0	150	0	0	0	0	0	0
Make it back to the dock (after attempting all challenges)	500									
Finish all tasks with T seconds left on the clock	seconds									
<u>Bonus time</u>	0...1200	0	0	0	0	0	0	0	0	0
Return to dock sub-total		0	0	0	0	0	0	0	0	0
Total		402	124	285	155	687	138	153	0	35
Rank		2	7	3	4	1	6	5	9	8

Course C - Qualifications

	Max Pts	Daytona Beach Homesc hoolers	Embry-Riddle Aeronautical University	Georgia Institute of Technology Aerospace	Hagerty High School	Institut Teknologi Sepuluh Nopember	Tecnológico de Monterrey	Universitas Indonesia	University of Iowa	University of Michigan
Dry weight	lbs	36	56	125		67	64	45	116	
<u>Dry weight points</u>	-250...+150	115	95	-325	0	84	86	106	-280	0
Generated thrust	lbs	10	16	9		19	35	24	6	
<u>Generated thrust points</u>	0...2200	27	29	7	0	29	35	54	5	0
Autonomous Navigation	100									
Mandatory tasks sub-total		141	123	-318	0	112	121	159	-275	0
Entered thru gates	50			50		50				
Circle blue buoy	100			100		100				
Exited thru gates	100			100		50				
Navigate through speed challenge	sec			108		114				
<u>Speed gate points</u>	0...250	0	0	142	0	136	0	0	0	0
<u>Fastest Vehicle</u>	250	0	0	250	0	0	0	0	0	0
Speed Challenge sub-total		0	0	642	0	336	0	0	0	0
Launched UAV	250									
Entered first bay with active pinger	250									

RoboBoat 2017 scoresheet

Entered the second bay as indicated by 7-segment display	250										
Uploaded 7-seg shape	250										
Recovered UAV	250										
<u>Perfect docking</u>	750	0	0	0	0	0	0	0	0	0	0
Docking sub-total		0	0	0	0	0	0	0	0	0	0
Entered obstacle field	100			100							
Circled can buoy	200										
Exited obstacle field	200			200							
Nb buoys hit/straggled	Nb			1							
<u>Buoys Points</u>	200	0	0	200	0	0	0	0	0	0	0
<u>Perfect Find The Path</u>	400	0	0	0	0	0	0	0	0	0	0
Find The Path sub-total		0	0	500	0	0	0	0	0	0	0
Entered carousel between two flags	50										
Circle the floating platform while between two flags for a complete rotation	250										
Enter carousel between the correct flags on first attempt	150										
Nb flags hit	Nb										
<u>Flag points</u>	50	0	0	500	0	0	0	0	0	0	0
Perfect Follow the Leader	500	0	0	0	0	0	0	0	0	0	0
Follow the Leader sub-total		0	0	500	0	0	0	0	0	0	0
Make it back to the dock (after attempting all challenges)	500										
Finish all tasks with T seconds left on the clock	seconds										
<u>Bonus time</u>	0...1200	0	0	0	0	0	0	0	0	0	0
Return to dock sub-total		0	0	0	0	0	0	0	0	0	0
Total		141	123	1324	0	448	121	159	-275	0	
Rank		4	5	1	7	2	6	3	9	7	

Last Chance - Qualifications

	Max Pts	Daytona Beach Homesc hoolers	Embry-Riddle Aeronautical University	Georgia Institute of Technology Aerospace	Hagerty High School	Institut Teknologi Sepuluh Nopember	Tecnológico de Monterrey	Universitas Indonesia	University of Iowa	University of Michigan
Dry weight	lbs	35	60	126	35	66	66	45	118	97
<u>Dry weight points</u>	-250...+150	115	91	-328	115	84	84	105	-288	26
Generated thrust	lbs	10	16	15	17	19	35	23	6	8

RoboBoat 2017 scoresheet

<u>Generated thrust points</u>	0...2200	27	27	12	47	29	53	51	5	8
Autonomous Navigation	100		100	100	100	100	100			
Mandatory tasks sub-total		142	217	-216	262	213	237	156	-282	34
Entered thru gates	50			50	50	50				
Circle blue buoy	100			100		100				
Exited thru gates	100			100		100				
Navigate through speed challenge	sec			96		71				
<u>Speed gate points</u>	0...250	0	0	154	0	179	0	0	0	0
<u>Fastest Vehicle</u>	250	0	0	0	0	250	0	0	0	0
Speed Challenge sub-total		0	0	404	50	679	0	0	0	0
Launched UAV	250					0				
Entered first bay with active pinger	250					0				
Entered the second bay as indicated by 7-segment display	250					0				
Uploaded 7-seg shape	250					0				
Recovered UAV	250					0				
<u>Perfect docking</u>	750	0	0	0	0	0	0	0	0	0
Docking sub-total		0	0	0	0	0	0	0	0	0
Entered obstacle field	100		50	50		100				
Circled can buoy	200		200	200						
Exited obstacle field	200		200			200				
Nb buoys hit/straggled	Nb		2	2		3				
<u>Buoys Points</u>	200	0	100	100	0	50	0	0	0	0
<u>Perfect Find The Path</u>	400	0	0	0	0	0	0	0	0	0
Find The Path sub-total		0	550	350	0	350	0	0	0	0
Entered carousel between two flags	50									
Circle the floating platform while between two flags for a complete rotation	250									
Enter carousel between the correct flags on first attempt	150									
Nb flags hit	Nb									
<u>Flag points</u>	50	0	550	350	0	350	0	0	0	0
Perfect Follow the Leader	500	0	0	0	0	0	0	0	0	0
Follow the Leader sub-total		0	550	350	0	350	0	0	0	0
Make it back to the dock (after attempting all challenges)	500									
Finish all tasks with T seconds left on the clock	seconds									
<u>Bonus time</u>	0...1200	0	0	0	0	0	0	0	0	0

RoboBoat 2017 scoresheet

Return to dock sub-total		0	0	0	0	0	0	0	0	0
Total		142	1317	888	312	1592	237	156	-282	34
Rank		7	2	3	4	1	5	6	9	8

Finals scoresheet

	Max Pts	Daytona Beach Homesc hoolers	Embry-Riddle Aeronautical University	Georgia Institute of Technology Aerospace	Hagerty High School	Institut Teknologi Sepuluh Nopember	Tecnológico de Monterrey	Universitas Indonesia	University of Iowa	University of Michigan
Dry weight	lbs	35	60	123	38	70				
<u>Dry weight points</u>	-250...+150	115	90	-315	113	81	0	0	0	0
Generated thrust	lbs	8	42	36	17	20				
<u>Generated thrust points</u>	0...2200	21	69	29	44	29	0	0	0	0
Autonomous Navigation	100	100	100	100	100	100				
Mandatory tasks sub-total		236	259	-186	257	209	0	0	0	0
Entered thru gates	50	50		50	50	50				
Circle blue buoy	100	100		100	100	100				
Exited thru gates	100	100		100	100	100				
Navigate through speed challenge	sec	116		105	51	67				
<u>Speed gate points</u>	0...250	134	0	145	199	183	0	0	0	0
<u>Fastest Vehicle</u>	250	0	0	0	250	0	0	0	0	0
Speed Challenge sub-total		384	0	395	699	433	0	0	0	0
Launched UAV	250									
Entered first bay with active pinger	250									
Entered the second bay as indicated by 7-segment display	250									
Uploaded 7-seg shape	250									
Recovered UAV	250									
<u>Perfect docking</u>	750	0	0	0	0	0	0	0	0	0
Docking sub-total		0	0	0	0	0	0	0	0	0
Entered obstacle field	100	100	100	100						
Circled can buoy	200	200		200						
Exited obstacle field	200	200		200						
Nb buoys hit/straggled	Nb	4	1	10						
<u>Buoys Points</u>	200	0	200	0	0	0	0	0	0	0

RoboBoat 2017 scoresheet

Perfect Find The Path	400	0	0	0	0	0	0	0	0	0	0
Find The Path sub-total		500	300	500	0	0	0	0	0	0	0
Entered carousel between two flags	50										
Circle the floating platform while between two flags for a complete rotation	250										
Enter carousel between the correct flags on first attempt	150										
Nb flags hit	Nb										
Flag points	50	0	0	0	0	0	0	0	0	0	0
Perfect Follow the Leader	500	0	0	0	0	0	0	0	0	0	0
Follow the Leader sub-total		0	0	0	0	0	0	0	0	0	0
Make it back to the dock (after attempting all challenges)	500										
Finish all tasks with T seconds left on the clock	seconds										
Bonus time	0...1200	0	0	0	0	0	0	0	0	0	0
Return to dock sub-total		0	0	0	0	0	0	0	0	0	0
Total		1120	559	709	956	642	0	0	0	0	0
Rank		1	5	3	2	4	6	6	6	6	6

Final ranking	Max Pts	Daytona Beach Homechoolers	Embry-Riddle Aeronautical University	Georgia Institute of Technology Aerospace	Hagerty High School	Institut Teknologi Sepuluh Nopember	Tecnológico de Monterrey	Universitas Indonesia	University of Iowa	University of Michigan
Best performance prelims		917	1317	1324	312	1592	237	159	-282	35
Performance finals		1120	559	709	956	642	0	0	0	0
Final score *		1001120	1000559	1000709	1000956	1000642	237	159	-282	35
Ranking		1	5	3	2	4	6	7	9	8
* = we add 1,000,000 points to all teams who were selected for the finals		Daytona Beach Homechoolers	Embry-Riddle Aeronautical University	Georgia Institute of Technology Aerospace	Hagerty High School	Institut Teknologi Sepuluh Nopember	Tecnológico de Monterrey	Universitas Indonesia	University of Iowa	University of Michigan