

# RoboBoat 2015 - Final Scoresheet

## Final Ranking

Final ranking	Max Pts	Daytona Beach Homeschoolers	Electronic Engineering Polytechnic Institute of Surabaya	Embry-Riddle Aeronautical University	Florida Atlantic University	Georgia Institute of Technology	National Cheng Kung University	Old Dominion University Big Blue	Old Dominion University Sea Monarchs	Temple University	The Catholic University of America	University of Central Florida	University of Florida	University of Michigan	University of Ulsan	University of West Florida	Villanova University
Best performance prelims		1836	1536	2025	1614	1777	1342	855	461	914	1054	2013	1908	2347	625	0	1234
Performance finals		1990	1046	2334	2106	1676	0	0	0	0	0	1111	1863	2054	0	0	0
<b>Final score</b>		1001990	1001046	1002334	1002106	1001676	1342	855	461	914	1054	1001111	1001863	1002054	625	0	1234
<b>Ranking</b>		4	8	1	2	6	9	13	15	12	11	7	5	3	14	16	10
		Daytona Beach Homeschoolers	Electronic Engineering Polytechnic Institute of Surabaya	Embry-Riddle Aeronautical University	Florida Atlantic University	Georgia Institute of Technology	National Cheng Kung University	Old Dominion University Big Blue	Old Dominion University Sea Monarchs	Temple University	The Catholic University of America	University of Central Florida	University of Florida	University of Michigan	University of Ulsan	University of West Florida	Villanova University

## Static Judging

Performance Static	Max Pts	Daytona Beach Homeschoolers	Electronic Engineering Polytechnic Institute of Surabaya	Embry-Riddle Aeronautical University	Florida Atlantic University	Georgia Institute of Technology	National Cheng Kung University	Old Dominion University Big Blue	Old Dominion University Sea Monarchs	Temple University	The Catholic University of America	University of Central Florida	University of Florida	University of Michigan	University of Ulsan	University of West Florida	Villanova University
Utility of Web Site	50	32	39	32	38	35	33	30	18	30	2	29	39	27	30	8	34
Technical Merit (paper)	50	24	31	39	39	38	31	28	18	35	28	33	44	39	28	13	39
Written Style (paper)	50	31	32	41	41	40	30	30	23	32	31	37	43	42	28	17	41
Technical Accomplishment (static)	75	37	48	66	58	59	48	46	25	49	39	52	65	58	45	8	56
Craftsmanship (static)	75	36	59	68	58	59	51	46	30	60	42	52	68	56	52	0	53
Team Uniform (static)	10	9	9	10	9	9	8	9	7	9	2	8	9	9	3	0	9
Video presentation (video)	25	18	21	19	22	22	18	18	11	17	17	20	23	18	19	4	22
Discretionary points	40	27	18	25	19	21	20	24	9	19	20	17	28	19	24	0	20
<b>Sub-Total</b>	375	213	258	299	283	283	238	230	141	250	181	247	318	268	229	49	274
<b>Rank</b>		13	7	2	4	3	10	11	15	8	14	9	1	6	12	16	5

### Course A - Qualifications

	Max Pts	Daytona Beach Homescho olers	Electronic Engineering Polytechnic Institute of Surabaya	Embry-Riddle Aeronautical University	Florida Atlantic University	Georgia Institute of Technology	National Cheng Kung University	Old Dominion University Big Blue	Old Dominion University Sea Monarchs	Temple University	The Catholic University of America	University of Central Florida	University of Florida	University of Michigan	University of Ulsan	University of West Florida	Villanova University
Dry weight	lbs	42	19	56	85	81	62	76	98	57	65	83	99	100	52		96
Dry weight points	-250 ... +150	108	132	94	51	59	89	68	24	93	85	55	22	20	99	0	29
Generated thrust	lbs	2	12	8	7	16	17	7	13	19	20	17	51	15	4		4
Generated thrust points	0... 2200	5	65	13	8	19	27	9	13	32	31	20	51	15	7	0	4
Navigate through starting gate	100	100	100	100	100	100	100		100	100	100	100	100	100	100		100
Navigate through speed gate	sec	27	9	16	14	11	23			11	12	20	11	28	31		48
Speed gate points	0... 250	223	241	234	236	239	227	0	0	239	238	230	239	222	220	0	202
<b>Mandatory tasks sub-total</b>		436	537	441	394	417	442	77	137	464	454	405	412	357	425	0	334
Tthrough the right Entrance Gate (first attempt)	100			100			100							0	100		
Making it across the obstacle field	200	200	200	200	200	200	200				200	200		200			
Through the right Exit Gate (first attempt)	100			100													
Nb of obstacle hit	buoys	3	3	2	2	1	2				2	4		0	4		
Obstacle hit points	0...200	50	50	100	100	200	100	0	0	0	100	0	0	200	0	0	0
Perfect navigation	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Obstacle avoidance sub-total</b>		250	250	500	300	400	400	0	0	0	300	200	0	400	100	0	0
Enter any bay (first bay entered)	100	100												100			
Entering correctly either the first or second bay	200	200												200			
Entering the bays in the perfect sequence (no previous attempts)	300																
Perfect sequence + touching both of the docks (no previous attempt)	400																
<b>Automated docking sub-total</b>		300	0	0	0	0	0	0	0	0	0	0	0	300	0	0	0
Report a buoy	100													100			
Report the correct buoy on the first try	150													150			
Circle a buoy	100	100															
Circle the correct buoy on the first try	150																
Report and circle the correct buoy the first try	500																
<b>Beacon positioning sub-total</b>		100	0	0	0	0	0	0	0	0	0	0	0	250	0	0	0
Solution discussion	1,000	750	100	980	920	960	500	450	100	450	300	700	1000	940	100	0	900
Retrieve at least one image	100											100		100			
Upload the image analyzed	100											100					
Report a shape	100											100					
Report the correct shape and upload valid image	700																
<b>Interoperability challenge</b>		750	100	980	920	960	500	450	100	450	300	1000	1000	1040	100	0	900
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	0	0	0	0	0	0
<b>Return to dock sub-total</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>		1836	887	1921	1614	1777	1342	527	237	914	1054	1605	1412	2347	625	0	1234
		3	12	2	5	4	8	14	15	11	10	6	7	1	13	16	9

### Course B - Qualifications

	Max Pts	Daytona Beach Homeschoolers	Electronic Engineering Polytechnic Institute of Surabaya	Embry-Riddle Aeronautical University	Florida Atlantic University	Georgia Institute of Technology	National Cheng Kung University	Old Dominion University Big Blue	Old Dominion University Sea Monarchs	Temple University	The Catholic University of America	University of Central Florida	University of Florida	University of Michigan	University of Ulsan	University of West Florida	Villanova University
Dry weight	lbs	42	19	55	89	82	70	78	98	56	67	81	101	99	49		97
<u>Dry weight points</u>	-250 ... +150	108	131	95	42	57	81	64	24	94	83	59	18	22	102	0	26
Generated thrust	lbs	2	12	8	6	17	15	9	12	17	21	17	100	15	4		4
<u>Generated thrust points</u>	0... 2200	5	63	14	6	20	21	12	12	29	31	20	99	15	7	0	4
Navigate through starting gate	100	100	100	100	100	100	100	100	100		100	100	100	100			100
Navigate through speed gate	sec	26	8	14	13	10		21	25			16	9	25			
<u>Speed gate points</u>	0... 250	224	242	236	237	241	0	229	225	0	0	234	241	225	0	0	0
<b>Mandatory tasks sub-total</b>		437	536	445	385	418	201	405	361	123	214	413	458	362	109	0	130
Through the right Entrance Gate (first attempt)	100	100	100										100				
Making it across the obstacle field	200	200	200	200	200							200	200				
Through the right Exit Gate (first attempt)	100					200						100					
Nb of obstacle hit	buoys	1	0	0	2	2						1	3				
<u>Obstacle hit points</u>	0...200	200	200	200	100	100	0	0	0	0	0	200	50	0	0	0	0
<u>Perfect navigation</u>	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Obstacle avoidance sub-total</b>		500	500	400	300	300	0	0	0	0	0	500	350	0	0	0	0
Enter any bay (first bay entered)	100		100									100					
Entering correctly either the first or second bay	200		200														
Entering the bays in the perfect sequence (no previous attempts)	300																
Perfect sequence + touching both of the docks (no previous attempt)	400																
<b>Automated docking sub-total</b>		0	300	0	0	0	0	0	0	0	0	100	0	0	0	0	0
Report a buoy	100			100													
Report the correct buoy on the first try	150																
Circle a buoy	100		100														
Circle the correct buoy on the first try	150																
Report and circle the correct buoy the first try	500																
<b>Beacon positioning sub-total</b>		0	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Solution discussion	1,000	750	100	980	920	960	500	450	100	450	300	700	1000	940	100	0	900
Retrieve at least one image	100	100		100								100	100				
Upload the image analyzed	100											100					
Report a shape	100											100					
Report the correct shape and upload valid image	700																
<b>Interoperability challenge</b>		850	100	1080	920	960	500	450	100	450	300	1000	1100	940	100	0	900
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	0	0	0	0	0	0
<b>Return to dock sub-total</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>		1787	1536	2025	1605	1678	701	855	461	573	514	2013	1908	1302	209	0	1030
		4	7	1	6	5	11	10	14	12	13	2	3	8	15	16	9

### Finals scoresheet

	Max Pts	Daytona Beach Homeschoolers	Electronic Engineering Polytechnic Institute of Surabaya	Embry-Riddle Aeronautical University	Florida Atlantic University	Georgia Institute of Technology	National Cheng Kung University	Old Dominion University Big Blue	Old Dominion University Sea Monarchs	Temple University	The Catholic University of America	University of Central Florida	University of Florida	University of Michigan	University of Ulsan	University of West Florida	Villanova University
Dry weight	lbs	43	18	57	89	83						82	100	99			
<u>Dry weight points</u>	-250 ... +150	107	133	93	42	55	0	0	0	0	0	57	20	22	0	0	0
Generated thrust	lbs	2	12	7	8	18						17	53	16			
<u>Generated thrust points</u>	0... 2200	5	69	11	8	21	0	0	0	0	0	20	53	16	0	0	0
Navigate through starting gate	100	100	100	100	100	100						100	100	100			
Navigate through speed gate	sec	22	5		14	10						17	10	24			
<u>Speed gate points</u>	0... 250	228	245	0	236	240	0	0	0	0	0	233	240	226	0	0	0
<b>Mandatory tasks sub-total</b>		440	546	204	386	416	0	0	0	0	0	411	413	364	0	0	0
Tthrough the right Entrance Gate (first attempt)	100	100	100	100									100	100			
Making it across the obstacle field	200	200	200	200	200								200	200			
Through the right Exit Gate (first attempt)	100			100													
Nb of obstacle hit	buoys	2	2	3	1								3	3			
<u>Obstacle hit points</u>	0...200	100	100	50	200	0	0	0	0	0	0	0	50	50	0	0	0
<u>Perfect navigation</u>	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Obstacle avoidance sub-total</b>		400	400	450	400	0	0	0	0	0	0	0	350	350	0	0	0
Enter any bay (first bay entered)	100	100		100	100									100			
Entering correctly either the first or second bay	200	200		200	200									200			
Entering the bays in the perfect sequence (no previous attempts)	300																
Perfect sequence + touching both of the docks (no previous attempt)	400																
<b>Automated docking sub-total</b>		300	0	300	300	0	0	0	0	0	0	0	0	300	0	0	0
Report a buoy	100			100										100			
Report the correct buoy on the first try	150																
Circle a buoy	100	100															
Circle the correct buoy on the first try	150																
Report and circle the correct buoy the first try	500																
<b>Beacon positioning sub-total</b>		100	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0
Solution discussion	1,000	750	100	980	920	960						700	1000	940			
Retrieve at least one image	100			100	100	100							100				
Upload the image analyzed	100			100		100											
Report a shape	100			100		100											
Report the correct shape and upload valid image	700																
<b>Interoperability challenge</b>		750	100	1280	1020	1260	0	0	0	0	0	700	1100	940	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	0	0	0	0	0	0
<b>Return to dock sub-total</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>		1990	1046	2334	2106	1676	0	0	0	0	0	1111	1863	2054	0	0	0
		4	8	1	2	6	9	9	9	9	9	7	5	3	9	9	9