Subjective	Max Pts	Amador Valley HS	Ain Shams U (Egypt)	CA Inst Tech	CA S Poly U	Carl Hayden HS – Falcon	Cornell U	Daytona Beach – SS Minnow	Delhi Tech U (India)	Embry-Riddle Aero U	Far Eastern Federal U (Russia)	Harbin Eng U (China)	India Ins of Tech Bombay (India)	India Ins of Tech Madras (India)
Utility of Web Site	50	36	25	36	22	38	41	29	29	35	28	27	35	29
Technical Merit (paper)	50	36	26	36	27	36	44	27	36	36	36	29	38	36
Written Style (paper)	50	35	26	36	29	37	44	27	35	38	34	27	38	36
Technical Accomplishment (static)	75	51	30	54	40	52	65	40	42	48	54	53	56	51
Craftsmanship (static)	75	53	28	55	43	55	65	40	40	49	55	55	57	53
Team Uniform (static)	10	8	8	8	1	8	9	9	8	9	5	9	9	9
Video	50	38	30	40	30	40	41	33	35	37	38	38	38	38
Discretionary points	40	11	8	7	8	11	9	10	8	7	8	8	7	8
AWOL Deduction														
Sub-Total	400	268	182	273	200	277	316	216	234	259	259	245	277	258
Rank		11	34	9	31	8	1	28	24	14	16	21	7	17
Performance Semi-final 1	**Max Pts**													
Actual dry weight	kg	21.0	x	36.5	x	49.5	35.5	6.0	x	21.0	40.0	31.0	45.0	34.5
Weight penalty/bonus	-250 .. +126	82	0	7	0	-171	11	115	0	82	-66	31	-121	15
Marker exceeding specs.	-500													
Pass through gate	100	100		100		100	100	100		100	100	100	100	
Maintain fixed heading	150	150		150		150	150	150		150	150	150	150	
Follow the "Path"	50 /segment	50					50				100			
Control Panel (solid, R-G, RGB)	400, 700, 1500			400		400								
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400	400						400			400	600		
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500						500							
Surface within correct Octagon	2000						2000							
Surface with an Object	1200						1200							
Drop the Object	500						500							
Object in sample box	1000 /object						2000							
Similar object in one sample box	x2						4000							
Objects in both sample boxes	x2													
Finish Mission T.tt minutes early	T.tt*100													
Semi-final 1 Total		782	0	657	0	479	10511	765	0	332	684	881	129	15
Semi-final 1 Rank		7	26	13	26	15	1	8	26	17	12	6	19	25
Performance Semi-final 2	**Max Pts**													
Actual dry weight	kg	21.0	x	36.0	x	49.5	35.0	6.5	x	20.0	41.0	31.0	45.5	36.0
Weight penalty/bonus	-250 .. +126	82	0	9	0	-171	13	114	0	84	-77	31	-127	9
Marker exceeding specs.	-500													
Pass through gate	100	100		100		100	100				100	100		100
Maintain fixed heading	150	150		150		150	150				150	150		150
Follow the "Path"	50 /segment						100				50			50
Control Panel (solid, R-G, RGB)	400, 700, 1500	400		1500		400	400							400
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400						1400					600		
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500						500				500			
Surface within correct Octagon	2000						2000				2000			
Surface with an Object	1200						1200							
Drop the Object	500						500							
Object in sample box	1000 /object						3000							
Similar object in one sample box	x2						6000							
Objects in both sample boxes	x2						6000							
Finish Mission T.tt minutes early	T.tt*100													
Semi-final 2 Total		732	0	1759	0	479	21363	114	0	84	2723	881	-127	709
Semi-final 2 Rank		11	28	7	28	16	1	24	28	26	6	10	38	12
Semi-Final 1&2 Round														
Best Round Total		1050	182	2032	200	756	21680	982	234	591	2981	1126	406	967
Best Round Rank		12	34	7	33	18	1	14	31	19	6	11	25	15
Performance Semi-final 3	**Max Pts**													
Actual dry weight	kg	20.5	x	36.0	x	x	x	6.5	x	20.0	x	31.0	37.5	35.5
Weight penalty/bonus	-250 .. +126	83	0	9	0	0	0	114	0	84	0	31	2	11
Marker exceeding specs.	-500													
Pass through gate	100	100		100				100				100	100	100
Maintain fixed heading	150	150		150				150				150		150
Follow the "Path"	50 /segment											150		
Control Panel (solid, R-G, RGB)	400, 700, 1500	700		400								400		400
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400							1000				600		
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500													
Surface within correct Octagon	2000													
Surface with an Object	1200													
Drop the Object	500													
Object in sample box	1000 /object													
Similar object in one sample box	x2													
Objects in both sample boxes	x2													
Finish Mission T.tt minutes early	T.tt*100													
Semi-final 3 Total		1033	0	659	0	0	0	1364	0	84	0	1431	102	661
Semi-final 3 Rank		4	20	8	20	20	20	2	20	19	20	1	17	7
Semi-Final Round All three														
Best Round Total		1301	182	2032	200	756	21680	1581	234	591	2981	1676	406	967
Best Round Rank		13	36	7	35	19	1	11	34	20	6	9	26	15
2 round rank		12	34	7	33	18	1	14	31	19	6	11	25	15
Final	**Max Pts**													
Actual dry weight	kg	x	x	x	x	x	35.5	x	x	x	41.5	x	x	x
Weight penalty/bonus	-250 .. +126		0	0	0	0	11		0	0	-83	0	0	0
Marker exceeding specs.	-500													
Pass through gate	100						100				100			
Maintain fixed heading	150						150				150			
Follow the "Path"	50 /segment						250				50			
Control Panel (solid, R-G, RGB)	400, 700, 1500						400							
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400						1400							
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500						500				500			
Surface within correct Octagon	2000						2000				2000			
Surface with an Object	1200						1200							
Drop the Object	500						500							
Object in sample box	1000 /object						6000							
Similar object in one sample box	x2 /box						4000							
Objects in both sample boxes	x2						12000							
Finish Mission T.tt minutes early	T.tt*100													
Final Total		0	0	0	0	0	28511	0	0	0	2717	0	0	0
Final Rank							1				4			

Subjective	Max Pts	Istanbul Tech U (Turkey)	Kasetsart U (Thailand)	Kyushu Inst of Tech (Japan)	Mälardalen U (Sweden)	McGill U (Canada)	Montana State U	Nat U of Singapore – Bumblebee (Singapore)	Nautilus	Prairie View A&M U	Reykjavik U (Iceland)	RoboEgypt (Egypt)	Robosub Club Palouse (WA, ID)	San Diego City College
Utility of Web Site	50	13	27	35	35	37	30	35	25	26	33	7	32	26
Technical Merit (paper)	50	27	36	38	38	39	13	40	30	28	31	20	33	30
Written Style (paper)	50	27	34	37	39	40	6	40	32	27	32	15	35	32
Technical Accomplishment (static)	75	36	54	51	52	58	37	58	41	35	54	0	51	34
Craftsmanship (static)	75	33	60	53	57	60	40	60	43	36	50	0	52	36
Team Uniform (static)	10	6	9	8	13	15	6	8	8	8	8	0	8	9
Video	50	0	35	34	35	33	31	39	33	28	36	10	35	36
Discretionary points	40	6	9	10	13	16	5	9	9	5	9	0	9	6
AWOL Deduction														
Sub-Total	400	149	264	266	282	299	168	288	222	194	253	52	256	209
Rank		38	13	12	6	3	35	5	25	33	20	39	19	29
Performance Semi-final 1	**Max Pts**													
Actual dry weight	kg	x	46.5	33.0	26.5	23.5	x	51.5	x	15.0	31.5	x	23.5	12.5
Weight penalty/bonus	-250 .. +126	0	-138	22	51	64	0	-193	0	95	29	0	64	101
Marker exceeding specs.	-500													
Pass through gate	100		100		100	100		100		100	100			
Maintain fixed heading	150		150	150	150	150		150		150	150			
Follow the "Path"	50 /segment					50					100			
Control Panel (solid, R-G, RGB)	400, 700, 1500				400	600					400			
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400										600			
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500													
Surface within correct Octagon	2000													
Surface with an Object	1200													
Drop the Object	500													
Object in sample box	1000 /object													
Similar object in one sample box	x2													
Objects in both sample boxes	x2													
Finish Mission T.tt minutes early	T.tt*100													
Semi-final 1 Total		0	112	172	701	964	0	57	0	345	1379	0	64	101
Semi-final 1 Rank		26	20	18	10	5	26	23	26	16	4	26	22	21
Performance Semi-final 2	**Max Pts**													
Actual dry weight	kg	45.5	46.5	33.0	26.5	24.5	x	51.0	x	x	32.5	x	23.0	11.5
Weight penalty/bonus	-250 .. +126	-127	-138	22	51	59	0	-187	0	0	24	0	66	103
Marker exceeding specs.	-500													
Pass through gate	100		100	100	100	100		100	100		100		100	100
Maintain fixed heading	150		150	150	150	150		150	150		150		150	150
Follow the "Path"	50 /segment		50			50		100						
Control Panel (solid, R-G, RGB)	400, 700, 1500					400								
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400		400			600		400						
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500							500			500			
Surface within correct Octagon	2000							2000			2000			
Surface with an Object	1200													
Drop the Object	500													
Object in sample box	1000 /object													
Similar object in one sample box	x2													
Objects in both sample boxes	x2													
Finish Mission T.tt minutes early	T.tt*100													
Semi-final 2 Total		-127	562	272	301	1359	0	3063	250	0	2774	0	316	353
Semi-final 2 Rank		38	14	20	19	8	28	4	21	28	5	28	18	17
Semi-Final 1&2 Round														
Best Round Total		149	826	538	982	1658	168	3351	472	539	3027	52	572	562
Best Round Rank		38	17	23	13	9	36	4	24	22	5	39	20	21
Performance Semi-final 3	**Max Pts**													
Actual dry weight	kg	0.0	47.0	34.0	26.5	23.5	x	x	x	x	x	x	23.0	11.5
Weight penalty/bonus	-250 .. +126	128	-143	18	51	64	0	0	0	0	0	0	66	103
Marker exceeding specs.	-500													
Pass through gate	100		100	100	100	100							100	100
Maintain fixed heading	150		150	150	150	150							150	150
Follow the "Path"	50 /segment					100								
Control Panel (solid, R-G, RGB)	400, 700, 1500		400	400		400								
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400													
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500					500								
Surface within correct Octagon	2000													
Surface with an Object	1200													
Drop the Object	500													
Object in sample box	1000 /object													
Similar object in one sample box	x2													
Objects in both sample boxes	x2													
Finish Mission T.tt minutes early	T.tt*100													
Semi-final 3 Total		128	507	668	301	1314	0	0	0	0	0	0	316	353
Semi-final 3 Rank		15	9	5	13	3	20	20	20	20	20	20	11	10
Semi-Final Round All three														
Best Round Total		277	826	933	982	1658	168	3351	472	539	3027	52	572	562
Best Round Rank		31	18	17	14	10	37	4	24	23	5	39	21	22
2 round rank		38	17	23	13	9	36	4	24	22	5	39	20	21
Final	**Max Pts**													
Actual dry weight	kg	x	x	x	x	x	x	51.0	x	x	32.0	x	x	x
Weight penalty/bonus	-250 .. +126	0	0	0	0	0	0	-187	0	0	26	0	0	0
Marker exceeding specs.	-500													
Pass through gate	100							100			100			
Maintain fixed heading	150							150			150			
Follow the "Path"	50 /segment							50						
Control Panel (solid, R-G, RGB)	400, 700, 1500										400			
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400													
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500							500						
Surface within correct Octagon	2000							2000						
Surface with an Object	1200													
Drop the Object	500													
Object in sample box	1000 /object													
Similar object in one sample box	x2 /box													
Objects in both sample boxes	x2													
Finish Mission T.tt minutes early	T.tt*100													
Final Total		0	0	0	0	0	0	2613	0	0	676	0	0	0
Final Rank								5			6			

Subjective	Max Pts	San Diego City Robotics 101	San Diego State U Mech Club	SPSU – AUV Team	St. George's School (Canada)	Team BangaloreRobotics (India)	Team SONIA – ETS	U of Alberta – ARVP (Canada)	U of AZ – AUVUA	U of Colorado Boulder	U of FL	U of MD	U of S CA	U of Toronto (Canada)
Utility of Web Site	50	26	32	25	29	28	38	20	30	27	37	35	14	15
Technical Merit (paper)	50	31	35	30	29	32	36	37	33	23	40	38	31	27
Written Style (paper)	50	32	38	31	32	32	41	39	34	25	41	40	25	29
Technical Accomplishment (static)	75	41	49	24	47	37	61	45	50	36	64	54	24	43
Craftsmanship (static)	75	45	53	22	51	34	64	51	55	36	65	54	28	44
Team Uniform (static)	10	8	8	5	9	11	9	8	9	8	9	9	3	4
Video	50	28	37	5	35	32	39	38	37	34	39	35	32	37
Discretionary points	40	9	8	8	10	17	9	6	10	10	6	7	1	6
AWOL Deduction														
Sub-Total	400	220	259	149	241	221	296	245	257	199	302	271	158	206
Rank		27	15	37	23	26	4	22	18	32	2	10	36	30
Performance Semi-final 1	**Max Pts**													
Actual dry weight	kg	x	48.5	x	x	x	38.5	34.5	38.0	x	47.5	43.0	x	29.0
Weight penalty/bonus	-250 .. +126	0	-160	0	0	0	-50	15	0	0	-149	-99	0	40
Marker exceeding specs.	-500													
Pass through gate	100		100				100	100	100		100			
Maintain fixed heading	150		150				150	150	150		150			
Follow the "Path"	50 /segment							50	50		150			
Control Panel (solid, R-G, RGB)	400, 700, 1500		1500				400	400			400			
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400								400		1400			
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500										500			
Surface within correct Octagon	2000										2000			
Surface with an Object	1200													
Drop the Object	500													
Object in sample box	1000 /object													
Similar object in one sample box	x2													
Objects in both sample boxes	x2													
Finish Mission T.tt minutes early	T.tt*100													
Semi-final 1 Total		0	1590	0	0	0	600	715	700	0	4551	-99	0	40
Semi-final 1 Rank		26	3	26	26	26	14	9	11	26	2	39	26	24
Performance Semi-final 2	**Max Pts**													
Actual dry weight	kg	11.5	49.0	x	x	x	38.5	35.5	35.5	0.0	47.5	44.0	0.0	30.0
Weight penalty/bonus	-250 .. +126	103	-165	0	0	0	-50	11	11	128	-149	-110	128	35
Marker exceeding specs.	-500													
Pass through gate	100		100				100	100	100		100			
Maintain fixed heading	150		150				150	150	150		150			
Follow the "Path"	50 /segment		50				50		50		50			
Control Panel (solid, R-G, RGB)	400, 700, 1500		400				1500	400	400					
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400								600					
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500						500				500			
Surface within correct Octagon	2000						2000				2000			
Surface with an Object	1200										1200			
Drop the Object	500										500			
Object in sample box	1000 /object										3000			
Similar object in one sample box	x2										6000			
Objects in both sample boxes	x2										6000			
Finish Mission T.tt minutes early	T.tt*100													
Semi-final 2 Total		103	535	0	0	0	4250	661	1311	128	19351	-110	128	35
Semi-final 2 Rank		25	15	28	28	28	3	13	9	22	2	37	22	27
Semi-Final 1&2 Round														
Best Round Total		323	1849	149	241	221	4546	960	1568	328	19653	172	287	246
Best Round Rank		27	8	37	30	32	3	16	10	26	2	35	28	29
Performance Semi-final 3	**Max Pts**													
Actual dry weight	kg	x	48.0	x	x	10.0	x	35.0	35.5	x	x	43.5	x	x
Weight penalty/bonus	-250 .. +126	0	-154	0	0	106	0	13	11	0	0	-105	0	0
Marker exceeding specs.	-500													
Pass through gate	100		100					100	100			100		
Maintain fixed heading	150		150					150	150			150		
Follow the "Path"	50 /segment								50					
Control Panel (solid, R-G, RGB)	400, 700, 1500							400						
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400													
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500													
Surface within correct Octagon	2000													
Surface with an Object	1200													
Drop the Object	500													
Object in sample box	1000 /object													
Similar object in one sample box	x2													
Objects in both sample boxes	x2													
Finish Mission T.tt minutes early	T.tt*100													
Semi-final 3 Total		0	96	0	0	106	0	663	311	0	0	145	0	0
Semi-final 3 Rank		20	18	20	20	16	20	6	12	20	20	14	20	20
Semi-Final Round All three														
Best Round Total		323	1849	149	241	328	4546	960	1568	328	19653	416	287	246
Best Round Rank		29	8	38	33	27	3	16	12	28	2	25	30	32
2 round rank		27	8	37	30	32	3	16	10	26	2	35	28	29
Final	**Max Pts**													
Actual dry weight	kg	x	x	x	x	x	38.5	x	x	x	48.0	x	x	x
Weight penalty/bonus	-250 .. +126	0	0	0	0	0	-50		0	0	-154	0	0	0
Marker exceeding specs.	-500													
Pass through gate	100						100				100			
Maintain fixed heading	150						150				150			
Follow the "Path"	50 /segment										50			
Control Panel (solid, R-G, RGB)	400, 700, 1500													
Maneuvering Straight // Circumnavigate	400, 600 // 1000, 1400						600							
Marker: Incorrect, correct	700,1400 /marker													
Brunch (Lg, Sm, // 2 Sm)	700, 1000 /torp // 2500													
Reroute (removed, same, new)	300, 700, 1000 /diff pin													
Surface within an Octagon	500						500				500			
Surface within correct Octagon	2000						2000				2000			
Surface with an Object	1200										1200			
Drop the Object	500										500			
Object in sample box	1000 /object										3000			
Similar object in one sample box	x2 /box										6000			
Objects in both sample boxes	x2													
Finish Mission T.tt minutes early	T.tt*100													
Final Total		0	0	0	0	0	3300	0	0	0	13346	0	0	0
Final Rank							3				2			