



Los Altos Robotics

Tournament
at Loyola School

November 18, 2006

Chickened Out

Coach: Tim Smith

FLL #: 229

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
704.5	95.0	121	3.72	21.0	22.0	17.0	14.0

Challenge Results			Points	Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus
				Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used
				400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40
Round A	Turn 1	Table 2	95			2						5							Y	NXT
Round B	Turn 1	Table 1	81	Y	Y	1	1					7								NXT
Round C	Turn 4	Table 1	85					2				5		Y					Y	NXT
Round E	Turn 1	Table 2	121				2					7					Y	Y		NXT



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Flaming Ice Cubes

Coach: Diane Silverman

FLL #: 396

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
576.9	110.0	153	4.70	19.0	14.0	8.0	15.0

Challenge Results			Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus
			Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used
			400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40
Round A	Turn 2	Table 1	153	Y	Y		2			Y			6		Y			Y	NXT
Round B	Turn 2	Table 2	60				1	1					5					Y	NXT
Round C	Turn 2	Table 2	80	Y	Y		2			Y			5						NXT
Round E	Turn 1	Table 1	150	Y	Y		2			Y			5	Y	Y				NXT



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Storm Runners

Coach: Daphne Luong

FLL #: 565

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
697.1	130.0	163	5.01	21.0	24.0	9.0	18.0

Challenge Results			Points	Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus
				Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used
				400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40
Round A	Turn 5	Table 1	125	Y	Y		2					5						Y	RCX	
Round B	Turn 3	Table 1	101	Y	Y			2				7						Y	RCX	
Round C	Turn 4	Table 2	163	Y	Y	2				Y		6						Y	RCX	
Round E	Turn 2	Table 2	131	Y	Y		2					7						Y	RCX	



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LEGOers

Coach: Tom Sartor

FLL #: 1522

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
781.0	179.0	283	8.70	20.0	21.0	11.0	17.0

Challenge Results			Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus			
			Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used			
			400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40	20		
Round A	Turn 3	Table 1	258			2						Y	Y	3	1	Y	Y			Y	Y	NXT
Round B	Turn 1	Table 2	59					2						3			Y	5	Y			NXT
Round D	Turn 2	Table 1	283	Y	Y	2						Y	Y						Y			NXT
Round E	Turn 3	Table 2	117	Y	Y	1			1					4						Y		NXT



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Nano Knights

Coach: Mike Murray

FLL #: 3027

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
465.8	118.0	156	4.80	14.0	14.0	0.0	16.0

Challenge Results			Points	Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus
				Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used
				400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40
Round A	Turn 4	Table 2	83					2		Y			6					Y		NXT
Round B	Turn 2	Table 1	156	Y	Y	2				Y			7					Y		NXT
Round D	Turn 4	Table 2	130	Y	Y	2				Y	Y	6								NXT
Round E	Turn 3	Table 1	106			1	1			Y			7					Y		NXT



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Small is Beautiful

Coach: Tim Burks & Tod Irwin

FLL #: 3289

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
929.2	277.0	325	10.00	20.0	24.0	20.0	16.0

Challenge Results			Points	Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus
				Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used
				400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40
Round A	Turn 2	Table 2	304	Y	Y	2				Y	Y	3	3	Y	Y	Y	2	Y	Y	NXT
Round C	Turn 6	Table 1	259	Y	Y	2				Y	Y	2	3	Y	Y	Y	5	Y		NXT
Round D	Turn 5	Table 2	220	Y	Y		2			Y	Y	4		Y	Y		2			NXT
Round E	Turn 4	Table 1	325	Y		2				Y	Y	7		Y	Y		1	Y	Y	NXT



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Supersonic Turtles

Coach: Ogen Perry

FLL #: 3345

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
732.5	219.0	270	8.30	20.0	16.0	12.0	15.0

Challenge Results			Points	Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus
				Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used
				400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40
Round A	Turn 1	Table 1	183	Y	Y	2				Y			6		Y	Y	2	Y		NXT
Round C	Turn 1	Table 1	246	Y	Y	2				Y			7		Y	Y	2	Y	Y	NXT
Round D	Turn 1	Table 2	177	Y	Y	2				Y			4		Y	Y	2	Y		NXT
Round E	Turn 4	Table 2	270	Y	Y	2				Y			5		Y		1	Y	Y	NXT



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Legacy

Coach: Johann Schumann

FLL #: 3577

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
669.3	133.0	219	6.73	18.0	23.0	12.0	11.0

Challenge Results	Points	Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus
		Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used
		400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40
Round A	Turn 4	Table 1	65	Y	Y		2				5							RCX
Round C	Turn 5	Table 2	158	Y	Y	2					6					Y		RCX
Round D	Turn 1	Table 1	91			2					7						Y	RCX
Round E	Turn 5	Table 2	219	Y	Y	2		Y	Y		8					Y		RCX



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NanoBots

Coach: Steve Kelem

FLL #: 4185

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
379.3	120.0	133	4.09	11.0	11.0	0.0	13.0

Challenge Results	Points	Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus		
		Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used		
		400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40	20	
Round A	Turn 5	Table 2	133	Y	Y		2				Y			6		Y				RCX
Round C	Turn 3	Table 2	91	Y	Y	2							7							RCX
Round D	Turn 3	Table 1	126	Y	Y	2					Y			7						RCX
Round E	Turn 5	Table 1	131	Y	Y		2				Y			7						RCX



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Mega Buckyballs

Coach: Lindell Van Dyke

FLL #: 5076

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
475.8	125.0	169	5.20	14.0	14.0	0.0	16.0

Challenge Results			Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus	
			Points	Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used
			400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40	20
Round B	Turn 5	Table 2	66			2						7							RCX	
Round C	Turn 2	Table 1	119	Y			2		Y			8						Y	RCX	
Round D	Turn 4	Table 1	149	Y		1	1		Y			8				Y			RCX	
Round E	Turn 7	Table 2	169	Y	Y	2			Y			8						Y	RCX	



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SockBots

Coach: James Hinnant (Melissa Lui-mgr)

FLL #: 5200

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-325	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
441.0	157.0	193	5.93	13.0	12.0	0.0	13.0

Challenge Results			Points	Nanotube Strength		Smell			Space Elevator	Stain-Resistant Fabric				Molecular Motor	Self-Assembly	Individual Atom Manipulation		Smart Medicine	Atomic Force Microscopy	Fairness Bonus
				Truck On Lift	Truck And Frame Raised	Molecules On Yellow	Molecules Moved Elsewhere	Molecules Unmoved	Elevator Raised	Dirt Trap In Place	Dirt Dumper Empty	Dirt Pieces In Trap	Dirt Pieces On Table	Molecule In Frame	Segments Raised	Red Atoms Removed	White Atoms Removed	Ball Delivered	Nanotip Unstuck	Kit Used
				400	20	20	2 x 15	2 x 5	2 x 0	40	15	15	8 x 5	8 x 3	40	30	must be N	30 or 40	50	40
Round B	Turn 4	Table 2	108					2		Y	Y	5	1					Y		NXT
Round C	Turn 3	Table 1	168	Y				2		Y	Y	2	6					Y	Y	NXT
Round D	Turn 2	Table 2	159	Y	Y			2	Y	Y			8						Y	NXT
Round E	Turn 7	Table 1	193	Y		2				Y	Y	1	6					Y	Y	NXT