



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

Bionic Builders

Coach: Warren Horowitz

FLL #: 231

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
801.3	163.0	203	5.90	16.0	18.0	19.0

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	160	1	Y	2				Y		5		Y		2			NXT	
Round B	Turn 4	Table 2	143	Y	Y			2			Y	6		Y		5			NXT	
Round C	Turn 1	Table 1	148	Y	Y	2				Y	Y	6		Y	Y				NXT	
Round E	Turn 3	Table 1	203	Y	Y	2				Y	Y	1	6		Y	Y		Y	NXT	



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DogBots

Coach: Michael Schuh

FLL #: 453

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
928.1	266.0	301	8.75	24.0	21.0	20.0

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 5	Table 2	250	Y	Y	2					Y	2	5				1	Y	Y	NXT
Round C	Turn 2	Table 1	301	Y	Y	2							7	Y	Y		2	Y	Y	NXT
Round D	Turn 4	Table 1	258	Y	Y	2							6		Y		1	Y	Y	NXT
Round E	Turn 7	Table 2	258	Y	Y	2							6	Y	Y		2	Y		NXT



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Lego Legends

Coach: Gordon Elder

FLL #: 591

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
811.6	260.0	340	9.88	19.0	15.0	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 B	Turn 3	Table 2	190	Y	Y	2				Y	Y	6		Y		2			NXT	
Round C	Turn 5	Table 1	295	Y	Y	2			Y	Y	Y	2	5	Y		3		Y	NXT	
Round D	Turn 5	Table 2	340	Y	Y	1	1		Y	Y	Y	8		Y		2	Y		NXT	
Round E	Turn 7	Table 1	215	Y	Y	2				Y	Y	7		Y	Y		Y		NXT	



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The Lego Lords

Coach: Laura Fay

FLL #: 1521

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
780.2	120.0	215	6.25	17.0	14.0	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 1	Table 1	90	Y		2			Y	Y	6								NXT	
Round C	Turn 1	Table 2	215	Y	Y	2			Y	Y	2	5	Y		Y		Y		NXT	
Round D	Turn 1	Table 2	115	Y	Y	1	1		Y	Y	2	5							NXT	
Round E	Turn 5	Table 1	63			2			Y			6			Y	1			NXT	



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LegoStars

Coach: Thierry Schang

FLL #: 2024

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
763.5	221.0	268	7.79	17.0	13.0	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 B	Turn 4	Table 1	268	Y	Y	2				Y	Y	5	1		Y		3	Y		NXT
Round C	Turn 4	Table 2	254	Y	Y	2				Y		4	3				2	Y	Y	NXT
Round D	Turn 1	Table 1	178	Y	Y	2							6				3	Y		NXT
Round E	Turn 6	Table 2	186	Y	Y	2				Y			7				3		Y	NXT



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Nano Freaks

Coach: Mark Klein

FLL #: 2539

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
640.5	161.0	218	6.33	16.0	19.0	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 5	Table 1	165	Y	Y			2				5		Y		3		Y	NXT	
Round C	Turn 3	Table 2	177					2		Y		4		Y		2	Y	Y	NXT	
Round D	Turn 2	Table 2	218	Y	Y		1	1		Y		6		Y	Y	2	Y	Y	NXT	
Round E	Turn 6	Table 1	87				1	1				4		Y	Y			Y	NXT	



Los Altos Robotics

Tournament
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Destiny Builders

Coach: Yanjie Dong

FLL #: 2917

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
350.1	59.0	81	2.35	14.0	13.0	4.0

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	81					2				7		Y		2				NXT
Round B	Turn 1	Table 1	44				1	1		Y		8			Y					NXT
Round D	Turn 3	Table 1	63					2		Y		6				2				NXT
Round E	Turn 1	Table 2	51			1		1		Y		7			Y	4				NXT



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Lords of the Legos

Coach: Martin Van Ryswyk

FLL #: 3039

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
865.6	306.0	344	10.00	19.0	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 4	Table 2	301	Y	Y	2				Y	Y		7		Y		4	Y	Y	NXT
Round C	Turn 4	Table 1	305	Y	Y	2				Y	Y	2	5		Y		4	Y	Y	NXT
Round D	Turn 5	Table 1	276	Y	Y	1	1		Y	Y			7		Y		4	Y		NXT
Round E	Turn 4	Table 2	344	Y	Y	2			Y	Y	Y	3	3		Y		4	Y	Y	NXT



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The Bananas

Coach: Pete Pressley

FLL #: 3576

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
498.5	216.0	272	7.90	15.0	14.0	0.0

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 C	Turn 5	Table 2	179	Y	Y	2			Y	Y		8		Y	Y	6			NXT	
Round D	Turn 2	Table 1	272	Y	Y	2			Y	Y	4	4		Y		5	Y		NXT	
Round E	Turn 1	Table 1	166	Y	Y			2	Y	Y		2					Y	Y	NXT	
Round E	Turn 5	Table 2	250	Y	Y	1	1		Y		7			Y	Y	4	Y	Y	NXT	



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Electro Monkeys

Coach: Ming Wei

FLL #: 4296

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
414.1	88.0	144	4.18	14.0	14.0	0.0

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	124			2					8			Y	6	Y	Y	NXT		
Round B	Turn 2	Table 2	41			1	1		Y		2			Y	2			NXT		
Round D	Turn 3	Table 2	46			2			Y		7			Y	6			NXT		
Round E	Turn 2	Table 1	144	Y	Y	2					8					Y		NXT		



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Pokebots

Coach: Rick Schneider (Ritu Varma-mgr)

FLL #: 4379

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
601.6	154.0	195	5.66	14.0	14.0	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 A	Turn 3	Table 1	92			2						4			Y		Y		NXT	
Round B	Turn 1	Table 2	160			2			Y			5		Y		1		Y	NXT	
Round C	Turn 3	Table 1	169	Y	Y	2			Y	Y	2	3					Y		NXT	
Round E	Turn 3	Table 2	195			2			Y	Y		5		Y			Y	Y	NXT	



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

Tooners

Coach: K.K. Low

FLL #: 4500

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%
398.0	107.0	142	4.12	14.0	16.0	0.0

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 1	120	Y	Y			2			Y		5				Y		NXT	
Round B	Turn 3	Table 1	142	Y	Y	1	1					4	Y	Y	Y				NXT	
Round D	Turn 4	Table 2	48					2				6		Y					NXT	
Round E	Turn 2	Table 2	120					2			Y		5	Y		Y	8	Y	NXT	