

Final Results for Los Altos Robotics Oak Avenue School (South teams) FLL Local Competition – November 18, 2006

The four teams that qualified the Northern California FLL Championship Tournament are as follows: **DogBots #453**, **Lords of the Legos #3039**, **Lego Legends #591**, and **Bionic Builders #231**. This is based on places 1-4 in the Champion's Award category.

DogBots		Champion's Award
Dave Lordemann		Distinguished Service Award
Lego Legends	1 st	Innovative Design Award
Lego Stars	2 nd	
Lords of the Legos	1 st	Programming Award
Nano Freaks	2 nd	
Lord of the Legos, 344 Points	1 st	Robot Performance Award (Highest Score)
Lego Legends, 340 Points	2 nd	
Bionic Builders	1 st	Research Project Award
Pokebots	2 nd	
The Lego Lords	1 st	Teamwork Award
Molecular Mayhem	2 nd	
Bionic Builders		Rookie Team of the Year Award
Molecular Mayhem		Against All Odds Award
The Bananas & Pokebots		Team Spirit Award
Tooners & Lords of Legos		Judges' Choice Award
Michael Corsetto, Laura Fay, Ogen Perry, Tom Sartor & Martin Van Ryswyk		Outstanding Volunteer Awards
Austin Schuh & Travis Schuh		Outstanding Young Mentor Awards

Scoring details for all of the rounds and summaries for the scores and judging are on the following pages. (NOTE: due to some sort of pdf embedded font error, I had to put the results in two different files. Part A had the match results and Part B has the judging scores and team summaries.)

Thank you everyone for your part in making this a great competition.

Michael Schuh

Los Altos Robotics 2006 FLL Tournament Teams

Loyola/Covington School (North Teams)

	#	Name	Coach(s) & Managers	School	# & Grade(s)	Year
1	229	Chickened Out	Tim Smith	Egan & Other	4-7th	3
2	396	Flaming Ice Cubes	Diane Silverman	Almond	4-5th	2
3	565	Storm Runners	Daphne Luong	Almond & Loyola	5-6th	2
4	1482	TechnoStuds	Robert Lamm	Other & Bullis-Charter	5-4th	1
5	1522	LEGOers	Tom Sartor	Almond & Santa Rita	6-6th	3
6	3027	Nano Knights	Mike Murray	Int. School of the Peninsula, St. Josephs, Springer, & Almond	2-5th & 4-6th	2
7	3289	Small is Beautiful	Tim Burks & Tod Irwin	Home School	2-8th, 3-6th, 1-4th	3
8	3345	Supersonic Turtles	Ogen Perry	Hausner	4-5th	2
9	3577	Legocy	Johann Schumann	Bullis-Charter & Other	2-6th & 2-6th	2
10	4185	NanoBots	Steve Kelem	Bullis-Charter & Other	3-3rd & 1-3rd	1
11	4523	Bobcat	Ben Hua	Santa Rita	3-5th	2
12	4742	Burger Bots	Kenneth Gross	Almond	6-4th	1
13	5076	Mega Buckyballs	Lindell Van Dyke	Loyola & Covington	3-5th & 1-4th	2
14	5200	SockBots	James Hinnant (Melissa Lui-mgr)	Covington and Almond	3-6th and 1-4th	3

Oak Avenue School (South Teams)

	#	Name	Coach(s) & Managers	School	# & Grade(s)	Year
1	231	Bionic Builders	Warren Horowitz	Springer	4-4th	1
2	453	DogBots	Michael Schuh	Blach	4-8th	5
3	591	Lego Legends	Gordon Elder (Linda Runke-mgr)	Blach	4-7th	4
4	1521	The Lego Lords	Laura Fay	Springer	5-6th	1
5	2024	LegoStars	Thierry Schang	Oak	4-6th	4
6	2539	Nano Freaks	Mark Klein	Cupertino Middle School	4-6th	1
7	2917	Destiny Builders	Yanjie Dong	Oak	3-6th	3
8	3039	Lords of the Legos	Martin Van Ryswyk	Oak	3-6th	2
9	3064	Molecular Mayhem	Scott Shearer	Almond & Oak	1-5th and 3-5th	2
10	3576	The Bananas	Pete Pressley	Oak	5-4th	1
11	4296	Electro Monkeys	Ming Wei	Loyola	5-4th	1
12	4379	Pokebots	Rick Schneider (Ritu Varma-mgr)	Springer	5-4th	1
13	4500	Tooners	K.K. Low (Ariel Gruspe-mgr)	Blach, Cupertino, Kennedy	4-7th	1



2006 FIRST LEGO League, Los Altos Robotics
Tournament at Oak Avenue School
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Judging and Overall Scores

Team Name (FLL#)	Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
	0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
DogBots (453)	928.1	266.0	301	8.75	24.0	21.0	20.0	18.0
Lords of the Legos (3039)	865.6	306.0	344	10.00	19.0	20.0	16.0	17.0
Lego Legends (591)	811.6	260.0	340	9.88	19.0	15.0	14.0	17.0
Bionic Builders (231)	801.3	163.0	203	5.90	16.0	18.0	19.0	19.0
The Lego Lords (1521)	780.2	120.0	215	6.25	17.0	14.0	18.0	19.0
LegoStars (2024)	763.5	221.0	268	7.79	17.0	13.0	18.0	15.0
Nano Freaks (2539)	640.5	161.0	218	6.33	16.0	19.0	13.0	11.0
Pokebots (4379)	601.6	154.0	195	5.66	14.0	14.0	13.0	12.0
The Bananas (3576)	498.5	216.0	272	7.90	15.0	14.0	0.0	12.0
Molecular Mayhem (3064)	469.2	131.0	200	5.81	15.0	16.0	0.0	13.0
Electro Monkeys (4296)	414.1	88.0	144	4.18	14.0	14.0	0.0	13.0
Tooners (4500)	398.0	107.0	142	4.12	14.0	16.0	0.0	11.0
Destiny Builders (2917)	350.1	59.0	81	2.35	14.0	13.0	4.0	8.0



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	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
801.3	163.0	203	5.90	16.0	18.0	19.0	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	Y	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	



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

DogBots

Coach: Michael Schuh

FLL #: 453

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



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

Lego Legends

Coach: Gordon Elder

FLL #: 591

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
811.6	260.0	340	9.88	19.0	15.0	14.0	17.0

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	2	5		Y		3		Y	NXT	
Round D	Turn 5	Table 2	340	Y	Y	1	1		Y	Y	8		Y	Y		2	Y		NXT	
Round E	Turn 7	Table 1	215	Y	Y	2			Y	Y	7		Y	Y		Y	Y		NXT	



Los Altos Robotics

Tournament
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November 18, 2006

The Lego Lords

Coach: Laura Fay

FLL #: 1521

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
780.2	120.0	215	6.25	17.0	14.0	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 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



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

LegoStars

Coach: Thierry Schang

FLL #: 2024

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
763.5	221.0	268	7.79	17.0	13.0	18.0	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 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



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

Nano Freaks

Coach: Mark Klein

FLL #: 2539

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
640.5	161.0	218	6.33	16.0	19.0	13.0	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 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
at Oak Avenue School

November 18, 2006

Destiny Builders

Coach: Yanjie Dong

FLL #: 2917

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
350.1	59.0	81	2.35	14.0	13.0	4.0	8.0

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 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	



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

Lords of the Legos

Coach: Martin Van Ryswyk

FLL #: 3039

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
865.6	306.0	344	10.00	19.0	20.0	16.0	17.0

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



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

The Bananas

Coach: Pete Pressley

FLL #: 3576

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
498.5	216.0	272	7.90	15.0	14.0	0.0	12.0

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	Y	NXT



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

Electro Monkeys

Coach: Ming Wei

FLL #: 4296

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



Los Altos Robotics

Tournament
at Oak Avenue School

November 18, 2006

Pokebots

Coach: Rick Schneider (Ritu Varma-mgr)

FLL #: 4379

Overall Score	Average Points	Maximum Points	Performance Score	Design Innovation	Programming	Research Presentation	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
601.6	154.0	195	5.66	14.0	14.0	13.0	12.0

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	Teamwork
0-1000		0-344	0-10 / 25%	0-24 / 12.5%	0-24 / 12.5%	0-20 / 25%	0-20 / 25%
398.0	107.0	142	4.12	14.0	16.0	0.0	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 2	Table 1	120	Y	Y			2				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				5	Y		Y	8	Y		NXT	

