



Robot Design

Team Number 2
Judging Room Bot Builders

Directions: For each skill area, clearly mark the box that best describes the team's accomplishments. If the team does not demonstrate skill in a particular area, then put an 'X' in the first box for Not Demonstrated (ND). Please provide as many written comments as you can to acknowledge each team's hard work and to help teams improve. When you have completed the evaluation, please circle the team's areas of strength.

	Beginning	Developing	Accomplished	Exemplary	
Mechanical Design	Durability Evidence of structural integrity; ability to withstand rigors of competition				
	N D	quite fragile; breaks a lot	frequent or significant faults/repairs	rare faults/repairs	<input checked="" type="radio"/> sound construction; no repairs
	Mechanical Efficiency Economic use of parts and time; easy to repair and modify				
	N D	excessive parts or time to repair/modify	inefficient parts or time to repair/modify	appropriate use of parts and time to repair/modify	streamlined use of parts and time to repair/modify
Mechanization	Ability of robot mechanisms to move or act with appropriate speed, strength and accuracy for intended tasks (propulsion and execution)				
	N D	imbalance of speed, strength and accuracy on most tasks	imbalance of speed, strength and accuracy on some tasks	appropriate balance of speed, strength and accuracy on most tasks	<input checked="" type="radio"/> appropriate balance of speed, strength and accuracy on every task

Comments:

Try to be more organised with parts and be sturdier design
But overall well done

Programming	Programming Quality Programs are appropriate for the intended purpose and would achieve consistent results, assuming no mechanical faults				
	N D	would not achieve purpose AND would be inconsistent	would not achieve purpose OR would be inconsistent	should achieve purpose repeatedly	<input checked="" type="radio"/> should achieve purpose every time
	Programming Efficiency Programs are modular, streamlined, and understandable				
	N D	excessive code and difficult to understand	inefficient code and challenge to understand	appropriate code and easy to understand	streamlined code and easy for anyone to understand
Automation/Navigation	Ability of the robot to move or act as intended using mechanical and/or sensor feedback (with minimal reliance on driver intervention and/or program timing)				
	N D	frequent driver intervention to aim AND retrieve robot	frequent driver intervention to aim OR retrieve robot	robot moves/acts as intended repeatedly w/ occasional driver intervention	robot moves/acts as intended every time with no driver intervention

Comments:

Masterfully done, great use of myblocks and advanced features in coding eg EV3
Amazing work

Strategy & Innovation	Design Process Ability to develop and explain improvement cycles where alternatives are considered and narrowed, selections tested, designs improved (applies to programming as well as mechanical design)				
	N D	organization AND explanation need improvement	organization OR explanation need improvement	systematic and well-explained	<input checked="" type="radio"/> systematic, well-explained and well-documented
	Mission Strategy Ability to clearly define and describe the team's game strategy				
	N D	no clear goals AND no clear strategy	no clear goals OR no clear strategy	clear strategy to accomplish the team's well defined goals	clear strategy to accomplish most/all game missions
Innovation	Creation of new, unique, or unexpected feature(s) (e.g. designs, programs, strategies or applications) that are beneficial in performing the specified tasks				
	N D	original feature(s) with no added value or potential	original feature(s) with some added value or potential	original feature(s) with the potential to add significant value	original feature(s) that add significant value

Comments:

Documents... YAY! Thankyou for documenting your progress
Make sure to clearly specify strategy but overall well done

Strengths: Mechanical Design Programming Strategy & Innovation

good work Guys :D



**FIRST
LEGO
LEAGUE**

Project

Team Number 2

Judging Room _____

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	Beginning	Developing	Accomplished	Exemplary	
Research	Problem Identification * Clear definition of the problem being studied				
	N D	unclear; few details	partially clear; details missing	mostly clear; detailed	clear; very detailed ✓
	Sources of Information Types (e.g. books, magazines, websites, reports and other resources) and number of quality sources cited, including professionals in the field				
	N D	one type of information cited; minimal sources	two types of information cited; several sources	three types of information cited; many sources, including professionals ✓	four(+) types of information cited; extensive sources, incl. professionals
	Problem Analysis Depth to which the problem was studied and analyzed by the team				
	N D	minimal study; no team analysis	minimal study; some team analysis	sufficient study and analysis by team	extensive study and analysis by team
Comments:	Review Existing Solutions Extent to which existing solutions were analyzed by the team, including an effort to verify the originality of the team's solution				
	N D	minimal review; no team analysis	minimal review; some team analysis	sufficient review and analysis by team	extensive review and analysis by team ✓

A very clear problem was presented and backed up with a range of research.

Innovative Solution	Team Solution * Clear explanation of the proposed solution				
	N D	difficult to understand	some parts confusing	understandable	easy to understand by all ✓
	Innovation Degree to which the team's solution makes life better by improving existing options, developing a new application of existing ideas, or solving the problem in a completely new way				
	N D	existing solution/application	solution/application contains some original element(s)	original solution/application	original solution/application with the potential to add significant value ✓
Comments:	Implementation Consideration of factors for implementation (cost, ease of manufacturing, etc.)				
	N D	minimal factors considered	some factors considered	factors well considered; some question about proposed solution ✓	factors well considered and feasible solution proposed

An extremely innovative solution was given that was mostly practical and clearly derived from extensive research.

Presentation	Sharing * Degree to which the team shared their Project before the tournament with others who might benefit from the team's efforts				
	N D	shared with one individual	shared with one group	shared with one individual or group who may benefit	shared with multiple individuals or groups who may benefit ✓
	Creativity Imagination used to develop and deliver the presentation				
	N D	minimally engaging OR unimaginative	engaging OR imaginative	engaging AND imaginative	very engaging AND exceptionally imaginative ✓
	Presentation Effectiveness Message delivery and organization of the presentation				
Comments:	N D	unclear OR disorganized	partially clear; minimal organization	mostly clear; mostly organized	clear AND well organized ✓

An engaging, well-thought out presentation was given by the WHOLE TEAM using interesting resources to further reach the audience.

Strengths:

Research

Innovative Solution

Presentation

*Required for Award Consideration

Bot Builders.



Core Values

Team Number 2
Judging Room 35W

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	Beginning	Developing	Accomplished	Exemplary	
Inspiration	Discovery Balanced emphasis on all three aspects (Robot, Project, Core Values) of FIRST LEGO League; it's not just about winning awards				
	N D	emphasis on only one aspect; others neglected	emphasis on two aspects; one aspect neglected	emphasis on all three aspects	balanced emphasis on all three aspects
	Team Spirit Enthusiastic and fun expression of the team identity				
	N D	minimal enthusiasm AND minimal identity	minimal enthusiasm OR minimal identity	team is enthusiastic and fun; clear identity	team engages others in their enthusiasm & fun; clear identity
Integration	Application of FIRST LEGO League values and skills outside FIRST LEGO League (ability to describe current and potential examples from daily life)				
	N D	team does not apply values and skills outside FIRST LEGO League	team able to describe at least one example	team able to describe multiple examples	team able to describe multiple examples, incl. individual stories

Comments: The team was engaging & worked well to provide more than one answer. Some more discussion around specifically how they worked towards project + robot could have been heard.

Teamwork	Effectiveness Problem solving and decision making processes help team achieve their goals				
	N D	team goals AND team processes unclear	team goals OR team processes unclear	clear team goals and processes	clear processes enable team to accomplish well defined goals
	Efficiency Resources used relative to what the team accomplishes (time management, distribution of roles and responsibilities)				
	N D	limited time management AND unclear roles	limited time management OR unclear roles	excellent time management and role definition allows team to accomplish most goals	excellent time management and role definition allows teams to accomplish all goals
Kids Do the Work	Appropriate balance between team responsibility and coach guidance				
	N D	limited team responsibility AND excessive coach guidance	limited team responsibility OR excessive coach guidance	Good balance between team responsibility and coach guidance	team independence with minimal coach guidance

Comments: worked exceptionally well as a team eg. every team member knew their role and completed the task in a very short time

Gracious Professionalism®	Inclusion Consideration and appreciation for the contributions (ideas and skills) of all team members, with balanced involvement				
	N D	unbalanced team involvement AND lack of appreciation for contributions	unbalanced team involvement OR lack of appreciation for contributions	balanced team involvement AND appreciation for contributions of most team members	balanced team involvement AND appreciation for contributions of all team members
	Respect Team members act and speak with integrity so others feel valued-- especially when solving problems or resolving conflicts				
	N D	not evident with majority of team members	evident with majority of team members	almost always evident with all team members	always evident, even in the most difficult situations
Cooperation®	Team competes in the spirit of friendly competition and cooperates with others				
	N D	not evident with majority of team members	evident with majority of team members	almost always evident with all team members	always evident, even in difficult situations--and team actively helps other teams

Comments: They all worked together and cooperated very well. Every one was included, however some work can be done on ~~teams~~ everyone speaking up.

Strengths: Inspiration Teamwork Gracious Professionalism®