Innovation Project

Team Number 8192 Eagle Bots
Judging Room Project Blue

For each skill area, clearly **mark the box that best describes the team's accomplishments.** Teams should demonstrate everything at the level; if they are missing part, mark the level below. If the team does not demonstrate an area, 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. Use the back for additional comments if needed.

*Required for Award Consideration

		Beginning	Developing	Accomplished	Exemplary
Research	**Problem Identification** *	Clear definition of the problem being studied			
	ND	unclear; few details	partially clear; details missing	mostly clear; detailed	clear; very detailed
	Sources of Information	Quality and variety of data/evidence and sources cited			
	ND	minimal quality; variety limited	quality OR variety need improvement; did not include professional(s)	sufficient quality and variety; included professional(s)	extensive quality and variety; included multiple professionals
	Problem Analysis	Depth to which the problem was studied and analyzed by the team, including extent of analysis of existing solutions			
	ND	minimal study; no analysis	minimal study; some analysis	sufficient study and analysis	extensive study and analysis
Innovative Solution	**Team Solution***	Clear explanation of the proposed solution and description of how it solves the problem			
	ND	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			
	ND	existing solution/application	solution/application contains some original element(s)	original solution/application; potential added value	original solution/application; demonstrated added value
	Solution Development	Systematic process used to select, develop, evaluate, test, and improve the solution (Implementation could include cost, ease of manufacturing, etc.)			
	ND	process AND explanation need improvement	process OR explanation need improvement	systematic process included evaluation	systematic process included evaluation; implementation considered
Presentation	**Sharing***	Degree to which the team shared their Project before the tournament with others who might benefit from the team's efforts			
	ND	shared with family / friends	shared outside family / friends (such as classmates)	shared with one audience who may benefit OR one professional	shared with multiple audiences who may benefit OR multiple professionals
	Creativity	Imagination used to develop and deliver the presentation			
	ND	minimally engaging OR unimaginative	engaging OR imaginative	engaging AND imaginative	very engaging AND exceptionally imaginative
	Presentation Effectiveness	Message delivery and organization of the presentation			
	ND	unclear OR disorganized	partially clear; minimal organization	mostly clear; mostly organized	clear AND well organized

Award

Comments

0 6 0 3 6

Great Job….

Think about…

33

EAGLE 8013

Core Values

Team Number 8192

Judging Room _____

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. Use the back for additional comments if needed.

		Beginning	Developing	Accomplished	Exemplary
Inspiration	**Discovery**	Team explored and improved skills or ideas within all three aspects (Robot, Innovation Project, Core Values) of *FIRST*® LEGO® League; used creativity & persistence to solve problems			
	ND	minimal examples / all examples from 1 aspect	some examples / examples from 2 aspects	multiple examples / examples from all 3 aspects	multiple examples of exploring **new** skills & ideas; extensive examples of **improving** in all 3 aspects
	Team Identity	Fun expression of team identity; team expresses how they enjoy *FIRST* LEGO League			
	ND	minimal identity; minimal enjoyment	some identity; enjoyment is unclear	clear identity; team clearly expresses their enjoyment	clear identity; team engages others in their enjoyment
	Impact	Team applied knowledge, skills and/or values learned in *FIRST* LEGO League to improve themselves and their world			
	ND	unclear impact of *FIRST* LEGO League	knowledge, values or skills impacted some team members	knowledge, values or skills impacted all team members	knowledge, values or skills impacted all team members **AND** team used values or skills to help others
Teamwork	**Effectiveness**	Problem solving and decision-making processes help team achieve their goals			
	ND	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); team is stronger together than its individual members			
	ND	limited time management / role definition	clear time management / role definition	good time management / role definition allows team to avoid wasting effort **OR** resources	excellent time management / role definition allows team to avoid wasting effort **AND** resources
	Kids Do the Work	Appropriate balance between team responsibility and coach guidance			
	ND	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 appropriate coach guidance
Gracious Professionalism®	**Inclusion**	Consideration and appreciation for the contributions (ideas and skills) and differences of all team members.			
	ND	limited consideration / appreciation for contributions	consideration / appreciation for contributions of most team members	clear consideration / appreciation for contributions of all team members	all team members' contributions actively welcomed & recognized
	Respect	Team members act and speak with deference so others feel valued—especially when solving problems or resolving conflicts			
	ND	not evident with majority of team members	evident with majority of team members	clearly evident with all team members	clearly evident with all team members **AND** team encourages respect in others
	Coopertition®	Learning is more important than winning; Team learns from, teaches, and cooperates with each other and competing teams. Team competes in the spirit of friendly competition			
	ND	unclear or lack of team members cooperating with each other	team members cooperate with each other	team actively learns from and teaches teammates / celebrates other teams' successes	team actively helps, learns from, or collaborates with other teams **AND** celebrates other teams' successes

Comments

0 0 2 1 0

Great Job…

Think about…

25

Robot Design

Team Number 8192 Eagle Bots

Judging Room Design

For each Robot Design criteria, clearly mark the box that best describes the ability of the team to demonstrate or provide evidence (such as analysis or test data) that their robot and processes meet that level of achievement. If the team does NOT describe a particular criteria at all, 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. Use the back for additional comments if needed.

		Beginning	Developing	Accomplished	Exemplary
Mechanical Design	**Durability**	Robot designed to maintain structural integrity and have the ability to withstand rigors of competition			
	ND	quite fragile; breaks a lot	frequent or significant faults/repairs	rare faults/repairs	sound construction; no repairs
	Mechanical Efficiency	Robot designed to be easy to repair, modify, and be handled by technicians			
	ND	excessive time to repair/modify	inefficient to repair/modify	appropriate time to repair/modify	streamlined time to repair/modify
	Mechanization	Robot mechanisms designed to move or act with appropriate speed, strength and accuracy for intended tasks (propulsion and execution)			
	ND	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	appropriate balance of speed, strength and accuracy on every task
Programming	**Programming Quality**	Programs are appropriate for the intended purpose and should achieve consistent results, assuming no mechanical faults			
	ND	would not achieve purpose AND would be inconsistent	would not achieve purpose OR would be inconsistent	should achieve purpose repeatedly	should achieve purpose every time
	Programming Efficiency	Programs are modular, streamlined, and understandable			
	ND	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	Robot designed to move or act as intended using mechanical and/or sensor feedback (with minimal reliance on driver intervention and/or program timing)			
	ND	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
Strategy & Innovation	**Design Process**	Developed and explained improvement cycles where alternatives were considered and narrowed, selections tested, designs improved (applies to programming as well as mechanical design)			
	ND	organization AND explanation need improvement	organization OR explanation need improvement	systematic and well-explained	systematic, well-explained and well-documented
	Mission Strategy	Clearly defined and described the team's game strategy			
	ND	no clear goals AND no clear strategy	no clear goals OR no clear strategy	clear strategy to accomplish well-defined goals	clear strategy to accomplish most/all game missions
	Innovation	Team identifies their sources of inspiration and creates new, unique, or unexpected feature(s) (e.g. designs, programs, strategies or applications) that are beneficial in performing the specified tasks			
	ND	No original feature(s)	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

0 0 6 3 0

Great Job...

- lots of spirit.
- uses sensors.
- has notes/comments.

Think about...

- during the presentation, they need to stay focused.
- Practice giving a robot presentation. have some one explain each part, everyone needs to speak.

21

TEAM #: 8192 Eagle Bots REFEREE: Aricelys D.

ROUND: 1 TABLE: Green

FIRST LEGO LEAGUE CITY SHAPER

(please circle one selection or fill in the blank for each item)

ADVANTAGE
Your Robot and Equipment fit in the Small Inspection Area: No (Yes)

1 **M01 – ELEVATED PLACES**
The Robot is Supported by the Bridge: (No) Yes
Number of flags that are clearly raised any distance, only by the Robot: (0) 1 2

2 **M02 – CRANE**
The Hooked Blue Unit is clearly lowered any distance from the Guide Hole: (No) Yes
The Hooked Blue Unit is Independent and Supported by another Blue Unit: (No) Yes
AND Level 1 is Completely in the Blue Circle: (No) Yes

3 **M03 – INSPECTION DRONE**
The Inspection Drone is Supported by the axle on the Bridge: (No) Yes

4 **M04 – DESIGN FOR WILDLIFE**
The Bat is Supported by the branch on the Tree: (No) Yes

5 **M05 – TREEHOUSE**
Number of Units Independent and Supported by the Tree's Large Branches: 0
Number of Units Independent and Supported by the Tree's Small Branches: 0

6 **M06 – TRAFFIC JAM**
The Traffic Jam is lifted, its moving part is Independent, and it is Supported only by its hinges: (No) Yes

7 **M07 – SWING**
The Swing is released: (No) Yes

8 **M08 – ELEVATOR**
The Elevator's moving parts are Independent and Supported only by its hinges, in the following position:
(Neither) Blue Car Down Balanced

9 **M09 – SAFETY FACTOR**
The Test Building is Independent and Supported only by the blue beams: No (Yes)
Number of blue beams knocked out at least half way: (0) 1 2 3 4 5 6

10 **M10 – STEEL CONSTRUCTION**
The Steel Structure is standing, and is Independent and Supported only by its hinges: (No) Yes

11 **M11 – INNOVATIVE ARCHITECTURE**
The Structure is bigger than a Blue Building Unit and built from the team's white LEGO bricks: No (Yes)
The Structure is in any Circle: No Partly (Completely)

12 **M12 – DESIGN & BUILD**
Number of Circles with a color-matching Unit, flat down on the Mat, and Completely in Circle: 0 (1) 2 3
Sum of height Levels of Independent Stacks at least partly in any Circle: 4

13 **M13 – SUSTAINABILITY UPGRADES**
Number of Upgrades that are Independent and Supported only by a Stack which is at least partly in a Circle: 0 (1) 2 3

14 **M14 – PRECISION**
Number of Precision Tokens left on the field: 0 1 2 3 4 (5) 6

RETURN LOOSE ITEMS
(4x) Blue Units, (4x) White Units, (4x) Red Units, (4x) Tan Units, (1x) Bat, (1x) Drone, (1x) Solar Panel Upgrade, (1x) Insulation Upgrade, (1x) Garden Upgrade, (1x) Hooked Blue Unit, (1x) Test Building, and (6x) Precision Tokens

TEAM INITIALS: E. B.

170

TEAM #: Eagle bots 8192 REFEREE: Hunter

ROUND: 2 TABLE: Blue

FIRST LEGO LEAGUE CITY SHAPER

(please circle one selection or fill in the blank for each item)

ADVANTAGE
Your Robot and Equipment fit in the Small Inspection Area: No Yes

1 **M01 – ELEVATED PLACES**
The Robot is Supported by the Bridge: No Yes
Number of flags that are clearly raised any distance, only by the Robot: 0 1 2

2 **M02 – CRANE**
The Hooked Blue Unit is clearly lowered any distance from the Guide Hole: No Yes
The Hooked Blue Unit is Independent and Supported by another Blue Unit: No Yes
AND Level 1 is Completely in the Blue Circle: No Yes

3 **M03 – INSPECTION DRONE**
The Inspection Drone is Supported by the axle on the Bridge: No Yes

4 **M04 – DESIGN FOR WILDLIFE**
The Bat is Supported by the branch on the Tree: No Yes

5 **M05 – TREEHOUSE**
Number of Units Independent and Supported by the Tree's Large Branches: 0
Number of Units Independent and Supported by the Tree's Small Branches: 0

6 **M06 – TRAFFIC JAM**
The Traffic Jam is lifted, its moving part is Independent, and it is Supported only by its hinges: No Yes

7 **M07 – SWING**
The Swing is released: No Yes

8 **M08 – ELEVATOR**
The Elevator's moving parts are Independent and Supported only by its hinges, in the following position:
Neither Blue Car Down Balanced

9 **M09 – SAFETY FACTOR**
The Test Building is Independent and Supported only by the blue beams: No Yes
Number of blue beams knocked out at least half way:
0 1 2 3 4 5 6

10 **M10 – STEEL CONSTRUCTION**
The Steel Structure is standing, and is Independent and Supported only by its hinges: No Yes

11 **M11 – INNOVATIVE ARCHITECTURE**
The Structure is bigger than a Blue Building Unit and built from the team's white LEGO bricks: No Yes
The Structure is in any Circle: No Partly Completely

12 **M12 – DESIGN & BUILD**
Number of Circles with a color-matching Unit, flat down on the Mat, and Completely in Circle: 0 1 2 3
Sum of height Levels of Independent Stacks at least partly in any Circle: 6

13 **M13 – SUSTAINABILITY UPGRADES**
Number of Upgrades that are Independent and Supported only by a Stack which is at least partly in a Circle: 0 1 2 3

14 **M14 – PRECISION**
Number of Precision Tokens left on the field:
0 1 2 3 4 5 6

RETURN LOOSE ITEMS
(4x) Blue Units, (4x) White Units, (4x) Red Units, (4x) Tan Units, (1x) Bat, (1x) Drone, (1x) Solar Panel Upgrade, (1x) Insulation Upgrade, (1x) Garden Upgrade, (1x) Hooked Blue Unit, (1x) Test Building, and (6x) Precision Tokens

TEAM INITIALS: FB

135

TEAM #: 8192 Eagle Bots REFEREE: Connor

ROUND: 3 TABLE: ref

FIRST LEGO LEAGUE CITY SHAPER

(please circle one selection or fill in the blank for each item)

ADVANTAGE
Your Robot and Equipment fit in the Small Inspection Area: No Yes

1 **M01 – ELEVATED PLACES**
The Robot is Supported by the Bridge: No Yes
Number of flags that are clearly raised any distance, only by the Robot: 0 1 2

2 **M02 – CRANE**
The Hooked Blue Unit is clearly lowered any distance from the Guide Hole: No Yes
The Hooked Blue Unit is Independent and Supported by another Blue Unit: No Yes
AND Level 1 is Completely in the Blue Circle: No Yes

3 **M03 – INSPECTION DRONE**
The Inspection Drone is Supported by the axle on the Bridge: No Yes

4 **M04 – DESIGN FOR WILDLIFE**
The Bat is Supported by the branch on the Tree: No Yes

5 **M05 – TREEHOUSE**
Number of Units Independent and Supported by the Tree's Large Branches: 8
Number of Units Independent and Supported by the Tree's Small Branches: 8

6 **M06 – TRAFFIC JAM**
The Traffic Jam is lifted, its moving part is Independent, and it is Supported only by its hinges: No Yes

7 **M07 – SWING**
The Swing is released: No Yes

8 **M08 – ELEVATOR**
The Elevator's moving parts are Independent and Supported only by its hinges, in the following position:
Neither Blue Car Down Balanced

9 **M09 – SAFETY FACTOR**
The Test Building is Independent and Supported only by the blue beams: No Yes
Number of blue beams knocked out at least half way: 0 1 2 3 4 5 6

10 **M10 – STEEL CONSTRUCTION**
The Steel Structure is standing, and is Independent and Supported only by its hinges: No Yes

11 **M11 – INNOVATIVE ARCHITECTURE**
The Structure is bigger than a Blue Building Unit and built from the team's white LEGO bricks: No Yes
The Structure is in any Circle: No Partly Completely

12 **M12 – DESIGN & BUILD**
Number of Circles with a color-matching Unit, flat down on the Mat, and Completely in Circle: 0 1 2 3
Sum of height Levels of Independent Stacks at least partly in any Circle: 9

13 **M13 – SUSTAINABILITY UPGRADES**
Number of Upgrades that are Independent and Supported only by a Stack which is at least partly in a Circle: 0 1 2 3

14 **M14 – PRECISION**
Number of Precision Tokens left on the field: 0 1 2 3 4 5 6

RETURN LOOSE ITEMS
(4x) Blue Units, (4x) White Units, (4x) Red Units, (4x) Tan Units, (1x) Bat, (1x) Drone, (1x) Solar Panel Upgrade, (1x) Insulation Upgrade, (1x) Garden Upgrade, (1x) Hooked Blue Unit, (1x) Test Building, and (6x) Precision Tokens

TEAM INITIALS: EB