



Robot Design Summary

Team Number

Team Name

*** Please save and upload to the Google Drive folder for your team ***

Robot's Name				
Favorite Mission		Maximum Score		Typical Score
Favorite Robot Feature		Most Innovative Robot Feature		
How often does your robot or its attachments break? (Circle One)	Frequently	Fairly Often	Occasionally	Almost Never
How often does your robot get stuck on the field and you have to retrieve it by hand? (Circle One)	Frequently	Fairly Often	Occasionally	Almost Never
Strategy <i>How did you choose the missions you worked on?</i>				

How many Motors and Sensors are on your robot? (See the Robot Game Rules for allowable types)					
Large Motors		Medium Motors		Color / Light Sensor	
Distance Sensor		Touch Sensor		Gyro / Angle Sensor	

Design Process

Design Process - be prepared to discuss what processes you used to design your robot and how you followed the Engineering Design Process (Explore -> Imagine -> Create -> Test -> Improve)?



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Program Summary

What can your robot do? List every program you plan to run during the tournament. Attach additional pages if needed.

Programming Language Used: LEGO MINDSTORMS EV3 or SPIKE OTHER _____

Program Name	Mission(s) Accomplished	Robot Actions	Attachments Used	Program Structure (Architecture)	Mechanical and/or Sensor Feedback Used	Mission Success Rate
What is this program called in your robot?	List the missions your robot will accomplish when you run this program.	List the types of actions performed during this mission (Forward / Turn / Lower attachment / etc.) You may include a more detailed outline and/or path diagram on a separate sheet.	Do you add anything to your robot while running this program?	List the types of programming commands used [actions (start motor, read sensor, etc.), loops, do until, switches (if-then), subroutines (MyBlocks), parallel programs, etc.]	Does your robot make decisions based on input from a sensor or mechanical feature? If yes, explain how the input is used.	How often does your robot accomplish the mission(s)? Show the Judges any data you collected from your trial runs!
EXAMPLE From HYDRO DYNAMICS SM	Fountain	Drive forward. Lower arm to release Big Water. Reverse back to base.	Arm	Forward in Rotations	None	Fairly Often (85% from data)



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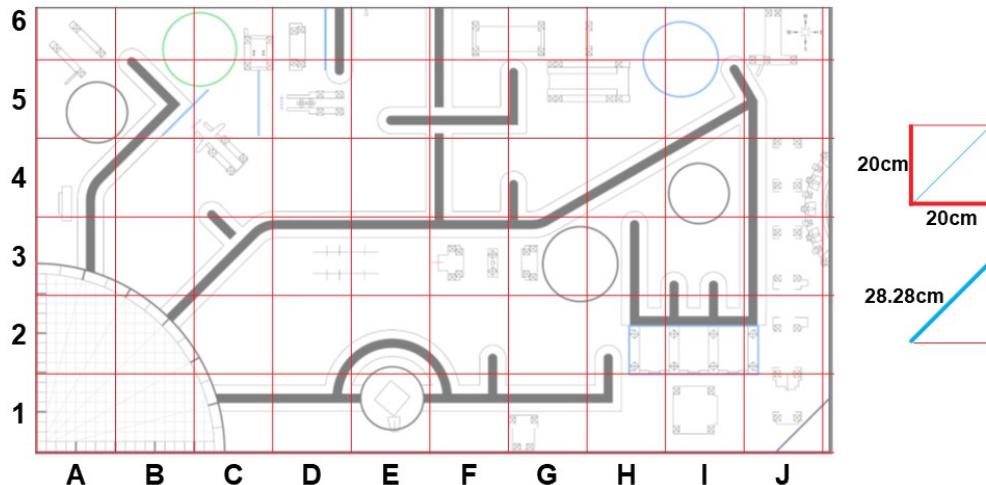
Program File Name _____

Robot Path Diagram

Create one Robot Path Diagram for each program you're planning to run. Sketch the path the robot takes as it executes the program. Each time the robot stops or takes an action, use the diagram to show what the robot is doing. Show the path diagram for your team's best program to the Judges during your Robot Design judging session.



CARGO CONNECTSM Wireframe and Grid



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Program Description

Explain each Path Diagram by showing your code, pseudocode (written outline), flow chart, or some other way. Assume the Judges have never seen the language you're using to code. How can you help them understand how your program works? (Use the back or additional pages if needed)