

Robot Design Executive Summary

Template: Please check with your local territory for guidance. This template is provided as an example from the 2019 season.

OPTIONAL: TEAM
Logo/button/graphic



Team Name

Team #

OPTIONAL: Team and/or robot photo

OPTIONAL:
TEAM Logo/
button/ graphic

Robot Design Executive Summary

Use this for an introduction to your team.

Brief description of you team and robot. Does your robot have a name? Do you have any memorable moments to share? Did you have any problems that you overcame?

OPTIONAL:
TEAM Logo/
button/ graphic

Robot Facts

Tell about your robot. How many motors? How many sensors? How many attachments? What language did you use? How many programs do you have? What program is the most consistent? What was your maximum score during practices? Add any details you would like to share with the judges.

OPTIONAL: Add photos of the attachments, robot, or the team building the robot.

OPTIONAL:
TEAM Logo/
button/ graphic

Design Detail - Fun

Tell us about the most interesting or fun part of the robot design and/or robot design process. What was the most difficult part? Do you have any fun stories to share? Did you team have any fun challenges? How did you overcome the challenges?

OPTIONAL: Add a fun photo of the team and robot.

OPTIONAL:
TEAM Logo/
button/ graphic

Design Details - Strategy

Tell us why you chose the mission(s) you chose. Tell us how you decided to complete the missions you chose. How many times did you have to redesign the robot/attachments? Why? What was the process for the redesign? How did each team member contribute to the design?

Did you use any drawings of the table layout to help your plan?

****add additional pages if needed to describe/show the attachments.***

OPTIONAL: Photo of
attachments

OPTIONAL:
TEAM Logo/
button/ graphic

Design Details - Process

Tell us how you designed your robot. Did you make changes? How did you know changes were needed? How did you decide what changes to make? How did each team member contribute to the decisions and changes?

OPTIONAL: Photo

OPTIONAL:
TEAM Logo/
button/ graphic

Design Details – Mechanical Design

Tell us about your robot's structure. What makes the robot stable? What makes it durable? Explain how the robot moves (drivetrain, motors, wheels). What attachments did you create? How did you make the attachments easy to add/remove? Is it easy to repair the robot? Is it easy to repair your attachments?

OPTIONAL: Photo

OPTIONAL:
TEAM Logo/
button/ graphic

Design Detail - Programming

What code did you use to program your robot? What did you do to make sure your results were repeatable? How did you organize your programs? How did you document your programs? How did you handle different versions of your programs (what did you do when you changed a program)? Did you use sensors? What did you use the sensors to do?

OPTIONAL: Photo

OPTIONAL:
TEAM Logo/
button/ graphic

Design Detail - Innovation

Does your robot have any features that make it unique? Does it have any features that required a creative solution?

OPTIONAL: Photo