RCJA 2022 OnStage Technical Description Paper

Team Information

Division:

Team Name:

School:

State/Territory:

Team Member Names:
If any team member had a specific role, please include this below.

Member 1:

Member 2:

Member 3:

Member 4:

Member 5:

Collaboration

It is the overall desire of RoboCup Junior events that any technological and curricular developments will be shared with other participants after the event. Any developments including new technology and software examples, may be published on the RoboCup Junior website after the event, furthering the mission of RoboCup Junior as an educational initiative.

Scoring Added to the Technical Interview Score	**/10**	**Novice**	**Open**
Demonstrates that the work on display is authentic		/6	/4
Hardware development process clearly indicated		/1	/2
Performance concept development process clearly indicated		/1	/2
Software development process clearly indicated		/2	/2

Summary

What is the theme/performance/idea of your performance?

What is the main highlight in your performance?

What sensors or technology should the audience look out for?

Robot(s) Overview

Please include number and type all robots you have used in The Performance, including programming language(s).

Mechanical Innovation

What was done to enhance the robot(s)' movements? Examples could include how you made the robots move smoothly, keep balance, communicate, avoiding objects, grasping objects, and so on.

Sensors

Which sensors are you using (for example Touch, Light, Sound, Rotation, Compass, Proximity, Ultrasonic, Colour)? How do the robots use these sensors? Do the performers interact with the robots via sensors?

Communication
Are you using any communication in your performance? If so what type (for example Infrared (IR), Bluetooth (BLE or Classic))?

Programming Language
What programming language(s) are you using?

The Highlight

The point what you want the audience and judges to show, usually the most important scene of The Performance.

Robot-Robot Interaction:

Is there any robot-robot interaction in your performance? How do the robots move?

Challenges and Difficulties:

What did your team find especially challenging? Did you overcome this? If so, how?

Photos and Images of the Robot(s)

6 | P a g e

If there is a design drawing of the robot or if you have photos or notes of the development process, please provide these as proof of your team's learning.

Your Learning Journey

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Briefly list your learning journey/activities you went through towards building The Performance. This can be done in a chronological order (dates worked on) or in any way that best explains your performance development.

Extra Information
Is there anything else you would like to add?