

RCJA 2024 OnStage Technical Description Paper Outline

You can present information as a document or slides

A detailed technical explanation can contribute a maximum of 10 extra points to your interview score

Team Information

Division:

Team Name:

School:

State/Territory:

Team Mentor:

Mentor Attending Interview (Yes or No)?

Mentors are able to attend the RoboCup Junior OnStage Interview in a supportive capacity only (please see OnStage Rules for details). Please indicate if your team mentor wishes to attend.

Team Member Names:

If any team member had a specific role, such as designer, engineer, programmer, prop design or manager please include this below.

Member 1:

Member 2:

Member 3:

Member 4:

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.

Submission

The RoboCup Junior Technical Description document must be able to be submitted as a **PDF file** to the RCJA Registration portal prior to the competition. Please note there is a maximum file size for the portal.

TDP Criteria

TDP submitted is the work of the team members	/2
Hardware & Engineering	/3
Software & Sensors	/2
Performance	/2



Hardware and Engineering	Showcase & Explain
 Design and Construction Mechanical Innovation How does the design enhance the robot(s) performance? Provide images and zoom into special features 	 Showcase your robot(s) design features Include images of your planning of your robot(s) build Is this your own design? Did you gather ideas from other robot builds? Special features: how you made the robot(s) move smoothly, keep balance, communicate, avoiding objects, grasping objects How is your robot(s) stable? Have you added costuming to your robot(s)? How do you make sure your robot(s) still works with the costume?
Software and Sensors	Showcase & Explain
 Coding language used for robot(s) and sensors Annotate to explain any interesting code: Use of sensors Special movements or interactions Reference any sources or libraries that you are using Provide images and zoom into your code 	 Coding What programming language(s) have you used to move and interact? Have you programmed a interaction between a robot and other robot(s), props or with a human performer? Sensors How have you used sensors to enhance your robot(s) movements and actions? How do the robot(s) use these sensors? Do the performers interact with the robot(s) via sensors?
Performance	Showcase & Explain
 What is the concept or theme of your performance? Provide a description of your performance 	 What are your favourite parts of your performance? What are you most proud of in your performance, team, design or code?