



RCAP CoSpace Humanoid OnStage Judging Overview (U19)

All teams are judged in the following areas:

- Technical Video – 20%,
- Technical Interview – 30%
- OnStage Performance – 50%



RCAP CoSpace Humanoid OnStage (U19) 2026

Technical Video Scoresheet (20%)

Country/Region:School:Team:

Category	Assessment Criteria	Points
1. AI Tool Methodology	<ul style="list-style-type: none"> ○ Explanation of how AI tools (e.g., Gemini, ChatGPT) were deployed for scripts, 3D assets, and music. Focus on the logic of human-AI collaboration. 	/30
2. Humanoid & Robot Implementation	<ul style="list-style-type: none"> ○ Technical demonstration of physical/virtual robots without costumes. Includes gait tuning, autonomous control logic, and sensor integration. 	/25
3. Hybrid Interaction	<ul style="list-style-type: none"> ○ Demonstration of wireless communication and autonomous interaction between the virtual AI environment and the physical/virtual robots. 	/15
4. Problem Solving	<ul style="list-style-type: none"> ○ Clear description of technical hurdles (e.g., gait stability or communication lag) and the original logic used to solve them. 	/15
5. Video Production & Clarity	<ul style="list-style-type: none"> ○ The video is technically engaging, well-organized, and presented in clear English (voice-over, text, and subtitles). 	/15
Total Score		/100



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Technical Interview (30%)

Country/Region:School:Team:

Category	Assessment Criteria	Mark
1. AI Tool Methodology	<ul style="list-style-type: none"> ○ Deep-dive explanation of prompt engineering, iterative refinement of AI assets, and the methodology of using AI as a "creative partner" 	/30
2. Humanoid Implementation	<ul style="list-style-type: none"> ○ Technical understanding of humanoid robotics, including DOF management, gait tuning, and autonomous stability control 	/30
3. Hybrid Interaction	<ul style="list-style-type: none"> ○ Live demonstration of complex, autonomous wireless communication (Bluetooth/Zigbee) between the physical robots and the virtual AI environment 	/20
4. Problem Solving	<ul style="list-style-type: none"> ○ Ability to describe sophisticated technical hurdles and the logical, engineering-based steps taken to resolve them 	/20
Bonus: Platform Evolution	<ul style="list-style-type: none"> ○ Additional Points: Constructive, technically feasible proposal for an innovative enhancement to the CoSpace platform. (No points deducted if missing). 	/10
Deduction: Authenticity	<ul style="list-style-type: none"> ○ Penalty: Applied if judges believe adults or mentors were involved in mending, building, or programming the robots 	/ -20
Total Score		/100



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Stage Performance (50%)

Country/Region:School:Team:

Category	Assessment Criteria	Mark
1. Narrative & Entertainment Value	Theme & Story: <ul style="list-style-type: none"> ○ A unique and original story developed with AI (LLM) scripting. Impact: Routine is engaging, professional, and triggers an emotional response from the audience. ○ Costumes: Aesthetic value of robot/human costumes and their fit to the theme 	/15
2. Hybrid World Interaction	System Integration: <ul style="list-style-type: none"> ○ Seamless wireless communication (Bluetooth/Zigbee) between real robots and the virtual environment. ○ Autonomous Reaction: Virtual entities and real robots/props react to one another meaningfully without human intervention 	/15
3. Virtual World	<ul style="list-style-type: none"> ○ Virtual 3D Design & AI Assets: Quality of AI-generated 3D objects, textures, and atmospheric effects (smoke, sparkles). ○ Cinematography: Creative use of the virtual camera to enhance the story for the audience. ○ Multimedia: Integration of original AI-generated music and soundscapes 	/10
4. Real World	<ul style="list-style-type: none"> ○ Technical Features: Execution of chosen robotic features <ul style="list-style-type: none"> – Feature 1: Autonomous Logic & Humanoid Gait Tuning – Feature 2: Robot/Robot or Robot/Props Interaction ○ Construction: Solid build quality, smooth autonomous movement, and effective stage arrangement. ○ Interactive Props: Innovative use of physical props that interact with robots 	/10
Deductions: (-3 for each at discretion of judges)	-3 for each unplanned human intervention (including remote or human controlled actions) -3 for each restart -3 each 10 seconds over or under the allotted time (on stage or performance) <i>If a problem is not the fault of a team no deductions will be applied</i>	
Total Score		/50