

Division: ____ Jr. ____ Sr. Team Name: _____ Team ID: _____

Judge Name: _____ Video Checked: ____ Team Table Visited: ____ Code Checked*: ____

(* you may ask other Judges opinions

Brief project description:

5: <u>Strongly Agree</u> 4: <u>Agree</u> 3: <u>Neutral</u> 2: <u>Somewhat Disagree</u> 1: <u>Disagree</u>	excellent, outstanding, advanced, exemplary, or amazing good, accomplished, or proficient average, intermediate level, or acceptable attempted but needs work little attempted or needs lots of help
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1 - 5

Judging Category	Sub Categories	Weight	Score
1. STEM learning	This project truly demonstrates applications of science, technology, engineering, and math for (bio) medical & healthcare related projects.	7%	
	Students have an age appropriate understanding of the science, technology, engineering, math, coding, and artificial intelligence (AI) concepts they applied to the medical robotics project.	7%	
2. Project idea and originality	The project idea is very original & unique and showed impressive creative thinking and creative problem-solving skills.	9%	
3. Project demo performance (robot)	The official live robot demo is free from problems and very impressive.	9%	
4. Project presentation	Project presentation is clear, well organized, and delivered effectively within the allowed time. Each team member must clearly state his/her roles.	9%	
	Information on the team poster, brochure and signage is clear, well designed, and able to be understood even by robotic novices. Project remained within allowed size parameters (max 64 ft ² or 5.95 m ² including a table).	3%	
5. Solution design	The solution design is creative, effective, user-friendly, and sturdy.	8%	
6. Project complexity & intelligence	The project is complex with multiple intelligent & interactive features/functions, sensors, and components.	7%	
	Project uses advanced emerging technologies such as AI (artificial intelligence, machine learning), generative AI, computer vision, XR, etc.	2%	
7. Practicality & Entrepreneurship	The demonstrated project shows potential as a useful and practical application of robotics technology for real-world (bio) medical applications.	8%	
	Team members have the entrepreneurship mindset. They presented budget and business plans on how to commercialize their systems.	8%	
8. Programming	Students are able to explain clearly their programming code (during live presentation and Judge's pre/post visit)	4%	
	(Code document in PDF has been submitted) <i>and</i> (programs are well designed, structured, and commented).	9%	
9. Team independence	Based on my observations and interaction with the team, I believe the project was mostly designed, developed, and programmed by students, not by adult coaches, parents, or mentors. The students were able to clearly and confidently explain each part of their project.	5%	
10. Preview Video	The video gives a clear explanation of features of the project, including the Team ID, Team Name and Introduction of each team member with roles (min. 4 minutes, max. 5 minutes).	5%	