





OnStage Technical Interview Score Sheet 2025

Category	Examples of how high marks may be achieved are:	Mark
Programming	Ability to explain the program and the interactions between the hardware and software:	/7
	Choice of programming language	
	Difficulties with the software	
	 Development of appropriate models, datasets and/or libraries to solve programming solutions 	
	Efficient and optimized programming with clear documentation and commenting with evidence of version control	
	Development of calibration, testing and debugging functionalities	
	Usage of AI / AR technology	
Electro-	Ability to explain why electromechanical design choices were made:	/7
mechanical Systems	Choice of materials, microcontrollers and actuators	
	 Development of custom electronics (including PCBs) 	
	 Power management, regulation, and battery choices 	
	Design choices are made to ensure systems are reliable and durable	
	 Sustainable design choices including the choice of materials 	
	Explain how systems are fit for purpose - examples include:	
	Complex mobility - omnidirectional/legged robots	
	Stable builds, system kinematics and design of custom components	
	 High precision systems including pneumatics 	
	Functional arms/hands/faces	
	Robotic arms for manipulation	
	Automatic balance system	







Category	Examples of how high marks may be achieved are:	Mark
Sensor and Communica-	Ability to explain the role of sensors and communication in the systems and how the robots interact with the stage environment:	/7
tion Systems	Robot systems can dynamically respond to unplanned events	
-	 Robots can sense their environment and use the information to dynamically respond with an action 	
	Integration of multi sensor systems to develop solutions	
	Development of communication between sensors	
	Creation of communication architectures (asymmetric communication)	
	Explain how systems are fit for purpose - examples include:	
	Visual/Audio recognition	
	 Developed guidance, navigation, and control systems 	
	Robot-Robot and/or [.underline]Natural Robot-Human interaction	
	Stage/Robot localization systems	
Innovation and Feature	Ability to explain and showcase innovative features or robotic components	/6
Development	 Innovation achieved with clear evidence of testing, research and development. Innovations that can inspire future competitors 	
	Teams are able to explain developments based on past feedback and performance results	
Teamwork and Collegiality	Evidence of team collaboration, problem solving and spirit in the performance and competition.	/3
Deductions (At discretion of judges up to -15)	Judges believe the work was not done by team members Team members are unable to explain their technical involvement with the robot	
Total Score		/30