

2020 Critical Design Review Score Sheet

Objective: Present the design details of the team's robot. (100 pts)

Scoring Sections	Possible Points	Points Awarded
Requirements (20pt)		
The team presented requirements (and strategies) that influenced their design specifications.	7	
The team presented both stated and derived requirements.	7	
The team presented how the requirements influenced their design.	6	
Comments:		
Functionality (30pt)		
The team described the functionality of the robot in detail, including how each of the robot's tasks will be performed.	8	
The team presented block diagrams of major robot components.	8	
The team discussed prototyping or modeling that was performed (either successful or unsuccessful).	8	
The team presented research performed regarding technical solutions (e.g., drive mechanisms, lift mechanisms, etc.).	6	
Comments:		
Design Specifications (Component and System) (30pt)		
The team presented component and system-level specifications. (e.g., weight, dimensions, speed, lift, structural integrity, power, processing, accuracy, etc.)	10	
The team used diagrams, tables, graphs, equations, calculations, simulations, and/or explanations to show "how" they arrived at specifications.	10	
Multiple design disciplines were represented in the review, including systems, mechanical, electrical, software, test, human factors, etc.	10	
Comments:		

Judge Name/number (print): _____

Team Number: _____ School: _____

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Scoring Sections	Possible Points	Points Awarded
Innovation, Risk and Lessons Learned (20pt)		
The team reviewed known risks in their design, including alternate or back-up plans if the mission objectives are not able to be accomplished.	7	
Innovative design elements or processes were used.	7	
The team shared lessons learned.	6	
Comments:		
Additional Comments:	Final Score:	Possible Points
		100
		Points Awarded

Judge Name/number (print): _____

Team Number: _____ School: _____