Scoring Sheet

Team Name Evaluated:_____ Evaluated by:_____

Section	Description	0 Points- area not covered	1 point- Area covered but poorly	2 points- Area covered adequately	3 points- Area covered with above average content	4 points- Area covered with Superior Content	SCORE (Points)
Organization							
	Binder with papers neatly inserted in the three-rings						
	Tabbed Sections that match Rubric						
	Team & School Names and Members on Front of Binder						
	Organization Extras (are there extras included that add to the functionality of the documentation?)						
						Maximum Section Score	***16***
						Total Section Score	
Design Motivation/Strategy							
	Influences □ If your team had a bot the previous year, review: • What was good about the bot • What should be changed in the future □ Design research □ Research other bot competitions and the different kinds of bots that won and lost to come up with ideas						
	Offensive □ How is your bot going to inflict damage on other bots						
	Defensive □ How is your bot design going to prevent damage being incurred by another bot □ Any special armor □ Maneuverability						
	Winning □ Of the different aspects that the bot is judged on, what is the focus of the design that will make it win matches? • Aggression • Speed • Damage						
						Maximum Section Score	***16***
						Total Section Score	

Team Procedures

Team Management □ Every meeting held by the team should have meeting minutes. Meeting minutes should include: • Topics discussed • Team members in attendance • Date of meeting • Any decisions made at the meeting • Any actions from the previous meeting plus new actions from the meeting (this should be an ongoing list with assignees and estimated completion dates)						
Material Management □ Track all material purchased for the bot. This can be done through copies of purchase orders □ A Bill of Materials showing how all of the material relates to each other (qty needed for the bot, where the part is used in the bot, etc.)						
Accounting/Budget □ This should be a listing of all expenses incurred. This can be tracked during the project through Purchase orders, then make a list at the end of the project to summarize • Purchase orders of all of the materials • Purchase orders of t-shirts/promotional materials						
Time Management □ A project plan is necessary to make sure all aspects of the project get completed in time. □ Be sure to list and track all major steps that need to happen on your plan						
Data Management □ This is how you keep all of the information and materials collected throughout the project together in a way that's easy to access and refer back to. • Is it easy to find items in your binder? • Is it organized to be functional for the needs of the project?						
Promotional/Fundraising □ Have a copy of any posters that were made to post at the school to get others to attend, □ Document any fundraising events that happened including date of event, money raised, method of raising funds						
					Maximum Section Score	***24***
					Total Section Score	

Design Process						
Research Methods □ Show the different designs that were considered □ Results of any brainstorming sessions to determine design.						
CAD Models □ 3D models from CAD of your bot design						
Refinement □ List what refinements were done based on the risk analysis and testing						
Structural Analysis □ Pros and cons of your bot design □ Risk Analysis (Failure Modes and Effects Analysis- template can be found online- this is a pretty typical risk analysis tool in industry) to determine where the weaknesses are in your bot, and how to mitigate those risks.						
Engineering Drawing Set □ These drawings should come from CAD, and should include dimensions on fabricated parts, and should include the specific parts used (i.e. specs of motors, screw specifications, etc)						
Material Selection □ List what materials were used to build your bot (the parts that were fabricated) and why you decided to use these materials. This is your bill of material.						
Manufacturing Plans □ Written procedure to show how to assemble the bot. This should include pictures with indicators of where the pieces go. Someone assembling your bot for the SECOND time should be able to take this procedure and assemble the bot without help.						
Assembly Models □ This should include pictures of any models that were made of the bot before the actual build to work on design.						
Weapon System Details □ Description of the weapon on the bot with advantages and possible disadvantages of this choice (the risk analysis would be a helpful reference here)						
Drive System Details □ Description of the choice of drive systems, and why it was chosen over others.						
Power System Details □ Description of the choice of drive systems, and why it was chosen over others.						
Wiring Schematic □ Drawing (could be in CAD- there are also software programs online) of the electrical wiring for the bot.						
Testing Results (Tests should be done via the scientific method. Results should be quantifiable and documented. And, whenever possible, tests should be repeated to ensure repeatability of the performance of the bot) □ Aggression testing □ Durability testing □ Maneuverability testing						
					Maximum Section Score	***52***
					Total Section Score	
					Maximum Total Score	***108***
					Total Score	