Team Number: _____ **School:** _____

2015 Project Engineering Notebook Score Sheet

Purpose: To document the process used to design, build, and test the robot (30 Points)	**Possible Points**	**Score**
RESEARCH PAPER (4 Points)		
▪ Correlation between game and how the science/technology is being used at a company/industry/research lab in the team's state or region	**10**	
Comments:		
▪ Any related information of game theme, such as history, famous inventor(s), or major milestones.	**10**	
Comments:		
▪ Creativity in linking game theme to appropriately related science content	**10**	
Comments:		
▪ Proper use of grammar and composition throughout paper, citations of sources used to gather information for paper, stayed within 2-5 page limit	**10**	
Comments:		
DESIGN PROCESS (17 Points)		
▪ **Implementation of the Engineering Design Process** Evidence that the engineering process was effectively used.	**25**	
Comments:		
▪ **Brainstorming Approaches** How well organized and productive was the brainstorming approach used? How well was the brainstorming approach documented?	**25**	
Comments:		
▪ **Analytical Evaluation of Design Alternatives** Use of analytical and mathematical skills in deciding upon and implementing design alternatives	**25**	
Comments:		
▪ **Offensive and Defensive Evaluation** Analysis of gaming strategies and design elements used to achieve team goals	**25**	
Comments:		

▪ **Software Design and Simulation (*from additional scoresheet*)** Evidence of custom software design vs default program; Demonstration of software design process; Evidence of use of simulation (e.g., Simulink) to verify correct operation of robot program; Consideration of good software design practices such as comments, naming conventions, design simplicity, modularity, portability, etc.	**25**	
Comments: *(see Software Design and Simulation Scoresheet)*		
▪ **Safety** Evidence that safety training occurred and safe practices were followed to prevent students' misuse of tools and other devices/equipment that may result in personal injury or damage to property	**20**	
Comments:		
▪ **Support Documentation** CAD/other drawings, photos, team organization, meeting minutes, test results, etc. that support the main document (max 20 total pages)	**25**	
Comments:		
OVERALL QUALITY AND COMPLETENESS OF NOTEBOOK (9 Points)		
▪ **Organization and appearance** Table of contents, summary, page numbers, discussion of evaluation points, linkage to appendices	**30**	
Comments:		
▪ **Adherence to specifications** Standard binder, business font no smaller than 12 pt., double-spaced (single spaced ok in tables and outlines), 30 one-sided page limit for main section, 20 page limit for appendices, 1" margins, required cover information.	**30**	
Comments:		
▪ **Quality of content** Well written descriptions, clear photo labels, lack of extraneous material, etc.	**30**	
Comments:		
Total	**300**	
	÷10	**÷ 10**
Final score:	**30**	

Judge name/number (print):_____