Team Name: _____

eCYBERMISSION Grading Rubric – Experimental Design (Engineering Design)

Criteria	Point Scale	Comments	Score
Develops a design statement that is logical based on an analysis of all research	0-3: Design statement is missing or inaccurate 4-6: Design statement is very vague 7-9: Design statement describes what the device should be able to do, lacks some detail 10-12: Design statement describes what the device should be able to do, is logical and based on analysis of all research, minor details lacking 13-15: Design statement describes what the device should be able to do, is logical and based on analysis of all research, clear and concise		
Criteria and constraints are valid, measureable, and address the design statement	Add 3 points: Lists all of the criteria needed (No list = 0, Minimal = 1, Missing one/two = 2, Lists all = 3) Add 3 points: Lists all of the constraints needed (No list = 0, Minimal = 1, Missing one/two = 2, Lists all = 3) Add 1 point to EACH of the above if very detailed in description Add 1 point: Are all criteria and constraints valid? Add 1 point: Are all criteria and constraints measureable? Add 5 points: Do the criteria and constraints address the design statement?		
Relevant variables are identified and an explanation is given to how they will be measured	Add 7 points: Correctly identifies relevant variables Add 7 points: Correctly identifies how they will measure the variables Add 1 point: Correctly identifies both		
Appropriate use engineering terminology	0-3: Does not use at all (0) or very minimal (3) 4-5: Use of engineering terminology is limited 6-7: Uses some appropriate terminology, some inaccurate 8-9: Uses appropriate terminology throughout 10: Uses appropriate terminology throughout, uses significant digits		
Proper use of grammar, spelling, and punctuation	0-3: 11 or more errors in document 4-5: Correct grammar, spelling, and punctuation throughout (9-10 errors) 6-7: Correct grammar, spelling, and punctuation throughout (5-8 errors) 8-9: Correct grammar, spelling, and punctuation throughout (1-4 minor errors) 10: Correct grammar, spelling, and punctuation throughout (no errors)		
Total	Max Points = 65		