

Engineering Communication: Technical Report Judge's Evaluation Sheet

School/Team: _____ Judge: _____

Class (circle one): RANGER EXPLORER

Judges: Please score the items below and record the score in the space provided in the right hand column. The total number of points possible (excluding discretionary and deductions) is 60.

1 0 = Yes (1) No (0)

2 1 0 = 2 – excellent, 1 – good, 0 – poor or missing

	60 pts max	SCORE
Overall Presentation	5 pts max	
Report is 2 MB or less	1 0	
Report is 20 pages or less	1 0	
Measurements are in SI units (metric)	1 0	
Report is well thought out, organized, and professional	2 1 0	
Title Page Contains	4 pts max	
Project/ROV name	1 0	
School, club, or team name	1 0	
List of team members	1 0	
Names of instructor(s) and/or mentor(s)	1 0	
Abstract	3 pts max	
Is 250 words or less	1 0	
Concise and clear summary of the teams work	2 1 0	
Photos of ROV	3 pts max	
Completed, intact vehicle photo	1 0	
Photo descriptions accompany photos	2 1 0	
Budget/Expense Sheet	7 pts max	
Math accurate	1 0	
Detailed accounting of funds	2 1 0	
Donations listed	2 1 0	
Expenditures listed	2 1 0	
Electrical Schematic	5 pts max	
Neatly hand-drawn or created using CAD	1 0	
Discloses presence of fuse/circuit breaker	2 1 0	
Clearly represents the electrical system	2 1 0	
Design Rationale	5 pts max	
Documents features to accomplish missions	1 0	
Presented in a clear and logical manner	2 1 0	
Demonstrates step-by-step planning process	2 1 0	
Vehicle Systems (score one)	2 pts max	
Team presents own, original work	2 1 0	
Documents work from commercial companies and/or instructors or mentors	0 -1 -2	
Challenges	4 pts max	
Describe at least one challenge faced	2 1 0	
Method used to overcome the challenge	2 1 0	
Page 1 Subtotal:		

Page 1 Subtotal:		
Troubleshooting Techniques	4 pts max	
Explain troubleshooting technique	2	1 0
What was used to identify and solve the problem	2	1 0
Future Improvement	2 pts max	
Thoughtful and logical discussion for one improvement	2	1 0
Lessons Learned	2 pts max	
Lesson learned or skilled gained relating to the process	2	1 0
Description of Cultural, Historical, and/or Societal Aspect of Human Life at the Poles	5 pts max	
Mentions the International Polar Year (IPY)	1	0
At least two sources cited	1	0
Photos or graphics	1	0
Description is well-written and informative	2	1 0
Reflections	4 pts max	
Personal or professional accomplishments from competition participation	2	1 0
Point of view includes the team as a whole or its individual members	2	1 0
Teamwork	3 pts max	
Team demonstrates teamwork and ideals behind working together	2	1 0
Team designed and built vehicle, particularly in electrical and software	1	0 -1
Acknowledgements	2 pts max	
Lists companies, organizations, or individuals	1	0
Recognizes donations of funds, supplies, and time.	1	0
Technical Report Score:		
Discretionary Points	5 pts max	
Bonus points for extraordinary work – grammatically correct, showed extra effort to overcome obstacles, etc.	5	4 3 2 1
Deductions	-4 pts max	
Lacks software block diagram or flow chart, if applicable	-2	
Overuse of appendices	-2	-1
Total:		

Comments:
