

Engr Communication: Technical Report - Explorer

1 0 = Yes (1) or No (0) 2 1 0 = 2: Excellent, 1: Good, 0: Poor or missing

Overall Presentation	10 pts max
Report is 2 MB or less	1 0
Report is 20 pages or less	1 0
Measurements are in SI units	1 0
Report is well thought out, organized, and professional	1 0
Report is "professional" and well written (e.g. attention to spelling)	2 1 0
Report indicates development over the course of time (i.e. is not a last minute product)	2 1 0
Report makes good use of references and properly attributes information to its original source	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 mentors	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	6 pts max
Complete, intact vehicle photo	2 1 0
Photo descriptions accompany photos	2 1 0
A mechanical drawing or sketch is included (may be of a sub-system)	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

A flowchart describes the software flow or why a hardware only approach was selected	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
Troubleshooting Techniques	4 pts max		
Payload tools are appropriate for accomplishing mission	2	1	0
Payload tools incorporate unique features	2	1	0
Payload Description	4 pts max		
Design and function of payload tools is clearly described	2	1	0
Discussion of tooling alternatives is provided	2	1	0
Future Improvement	2 pts max		
Thoughtful an logical discussion for one improvement	2	1	0
Lessons Learned	4 pts max		
Lesson learned or skill gained relating to the process - technical	2	1	0
Lesson learned or skill gained relating to the process – interpersonal	2	1	0
Description of a scientist and/or research projects that uses ROVs for similar missions to this ROVs design goals	5 pts max		
Mentions a scientist or project that uses ROVs in research	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

Technical Report Score:

Discretionary Points

Bonus points for extraordinary work - grammatically correct, showed extra effort to overcome obstacles, etc.

5 pts max

5 4 3 2 1

Deductions

Lacks software block diagram or flow chart, if applicable

-2

Over use of appendices

-3

Technical Report Total Score:

Total Cumulative Score:

Total Score: