

PROJECT REPORT - NAVIGATOR	MAX SCORE = 40	
School name and # AS IT APPEARS ON THE OFFICIAL LIST:		
Judge's name:		
1 0 = Yes (1) or No (0)		
4 3 2 1 0 = 4: Outstanding, 3: Exceptional, 2: Excellent, 1: Good, 0: Poor or missing		SCORE
Overall Presentation	5 pts max	
Report is 10 pages or less	1 0	
Measurements are in SI units (exceptions include 1/2-inch PVC, etc.)	1 0	
Report is well thought out, logically organized, and concise	2 1 0	
<i>Note: The report should follow a logical flow and not necessary the order presented in the specs, where budget comes before the rationale.</i>		
Report is well written (e.g. attention to spelling, grammar, sentence structure)	1 0	
Title Page Contains	1 pt max	
Includes all elements as specified in the guidelines	1 0	
<i>(Company name; school, club, or organization's name, city, and state; lists members of the company and their role; name of instructor/mentor)</i>		
Abstract	2 pts max	
Is 250 words or less and is a clear, concise summary of the company's work	2 1 0	
Photos of ROV	2 pts max	
Complete, intact photo of the vehicle is included	1 0	
Caption or description accompanies the photo	1 0	
Budget	3 pts max	
Math is accurate	1 0	
Presents an accounting of funds that makes a distinction among items and/or services purchased, re-used, and donated	2 1 0	
<i>Note: View this as a "snapshot" as of the date it was submitted. Companies were encouraged to note which expenses were estimates (e.g. travel to/from the competition) as well as what expenses were anticipated but had not been realized as of this date.</i>		
Electrical diagram/fluid power diagram	3 pts max	
Created using CAD or neatly hand-drawn	1 0	
Discloses presence of fuse/circuit breaker	1 0	
If fluid power is used, includes a fluid power diagram	1 0	
<i>Note: If fluid power is NOT used, score as a 1</i>		
Design Rationale	7 pts max	
Demonstrates step-by-step planning and design process	1 0	
Describes how the company brainstormed ideas to solve the mission tasks and evaluated those ideas against competing alternatives	2 1 0	
Report describes how the vehicle was designed to accomplish the missions	2 1 0	
Report demonstrates an understanding of the technical and scientific concepts behind designing and building the vehicle	2 1 0	
Troubleshooting Techniques	2 pts max	
Explains a troubleshooting technique(s) used to overcome a technical problem	2 1 0	
Safety	3 pts max	
Includes a safety section	1 0	
Describes company safety philosophy and practices during design and development of ROV	1 0	
Describes specific safety features of vehicle	1 0	
Challenges	2 pts max	
Describe at least one challenge faced and the method(s) used to overcome it	2 1 0	

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Lessons Learned	2 pts max	
Lesson learned or skill gained relating to the process – technical or interpersonal	2 1 0	
Future Improvements	2 pts max	
Thoughtful and logical discussion of a least one improvement	2 1 0	
Reflections	2 pts max	
Thoughtful personal or professional accomplishments from competition participation presented as a team or as individual team members	2 1 0	
Teamwork	2 pts max	
Company assigned specific tasks and developed a schedule to aid in building the vehicle	2 1 0	
References	1 pt max	
Lists any books, journal articles, web sites, etc. used as sources of information	1 0	
Acknowledgements	1 pt max	
Companies, individuals who contributed funds, equipment, and/or technical/moral support are acknowledged	1 0	
TECHNICAL REPORT SCORE:		
Discretionary Points	2 pts max	
Bonus points for extraordinary work	2 1	
Deductions	-5 pts max	
Company mentions that work was done by commercial companies and/or instructors or mentors and not able to provide a valid justification why	0 -3 -5	
TOTAL TECHNICAL REPORT SCORE:		

Comments: