School name and # AS IT APPEARS ON THE OFFICIAL LIST:		
ludge's name:		
1. 0 = Yes (1) or No (0) 3 2 1 0 = 3: Exceptional, 2: Excellent, 1: Good, 0:Poor	or missing	SSORE
		SCORE
Overall Presentation	12 pts max	
Report is 20 pages or less	1 0	
Measurements are in SI units (exceptions include 1/2-inch PVC, etc.) Report is well thought out, logically organized, and concise	1 0 2 1 0	
Note: The report should follow a logical flow and not necessary the order	2 1 0	
presented in the specs, where budget comes before the rationale.		
Report is "professional" and well written (e.g. attention to spelling, grammar,		
sentence structure)	2 1 0	
Includes a table of contents	1 0	
Report clearly describes how the vehicle was designed to accomplish the mission		
tasks	2 1 0	
Report demonstrates an understanding of the technical and scientific concepts behind designing and building the vehicle	2 1 0	
Includes references	1 0	
Induced references	1 0	
itle Page Contains	3 pts max	
Includes all elements as specified in the guidelines	2 1 0	
(Company name; school, club, or organization's name, city, and state; lists		
members of the company and their role; name of instructor/mentor)		
Presents a professional view of the company	1 0	
Abstract	3 pts max	
Is 250 words or less	1 0	
Concise and clear summary of the company's work	2 1 0	
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Photos of ROV	4 pts max	
Complete, intact vehicle photo	1 0	
Photo captions or descriptions accompany photos A mechanical drawing or sketch is included (may be of a sub-system)	1 0 2 1 0	
Note: The intent is to deem excellence if the drawing/sketch is particularly	2 1 0	
well done		
dudget/Expense Sheet	6 pts max	
Math accurate	2 1 0	
Detailed accounting of funds, e.g. incomes and expenditures properly accounted	2 1 0	
Notes what, if any, components/systems were reused from "last year"	1 0	
Note: If none were or a description is not included, score as a 1.		
Donations listed, including fair market value	1 0	
la strical Sahamatia	E mto more	
Electrical Schematic Neatly hand-drawn or created using CAD	5 pts max 2 1 0	
Discloses presence of fuse/circuit breaker	1 0	
Clearly represents the electrical system	2 1 0	
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Design Rationale	12 pts max	
Presented in a clear and logical manner	2 1 0	
Demonstrates step-by-step planning and design process	2 1 0	
Demonstrates acquisition and application of technical skills	2 1 0	
Documents and discusses how the ROV was designed and built to accomplish the mission tasks	4 3 2 1 0	
A flowchart describes the software flow OR rationale is provided describing why a	4 3 2 1 0	
hardware only approach was selected	2 1 0	

School name and # AS IT APPEARS ON THE OFFICIAL LIST: Judge's name:	
New in 2013! Safety	7 pts max
Includes a safety section	1 0
Describes company safety philosophy and practices during design and development of ROV	2 1 0
Describes specific safety features of vehicle	2 1 0
Describes safety precautions necessary while handling/operating the vehicle	1 0
Company shares a copy (preferably as an appendix) of its own safety checklist that	
is organized and well-thought through	1 0
Note: The checklist is NOT the safety inspection checklist provided by the competition. If the competition's is used, score as a 0.	J.
/ehicle Systems	8 pts max
Company demonstrates understanding of vehicle systems and operations	2 1 0
Original vs. commercial design	
Are the majority of the components designed & built by the company?	_
YES	3 OR
NO. Is a valid justification and a technical description of the functionality	3 2 1 0
provided for each commercial component?	5 - 1 0
Is it consistent with information presented in the budget?	
New vs. re-used components from "last year"	
Are the majority of the components new this year?	
YES	3
	OR
NO. Were the majority of the re-used components designed & built by the company?	
YES. Is a valid justification and a technical description of the	3 2 1 0
functionality provided for each re-used component?	3210
Is it consistent with information presented in the budget?	
	OR
NO	0
hallenges	4 pts max
Describe at least one challenge faced	2 1 0
Note: Two points if both a technical and a non-technical challenge are	- 1
described Method used to eversome the shallenge	2 1 0
Method used to overcome the challenge	2 1 0
Note: Two points if both a technical and a non-technical method are described	
Froubleshooting Techniques	6 pts max
Explains a troubleshooting technique(s)	2 1 0
What was used to identify and solve the problem	2 1 0
Describes any testing done on components or vehicle	2 1 0
Note: Two points if whole vehicle was tested; one point for component testing only	
Payload Description	2 pts max
Design and function of payload tools is clearly described	2 1 0
Future Improvement	2 nts may
Thoughtful and logical discussion for one improvement	2 pts max 2 1 0
and the second s	

chool name and # AS IT APPEARS ON THE OFFICIAL LIST: udge's name:	
essons 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
eflections	2 pts max
Personal or professional accomplishments from competition participation presented as a team or as individual team members	2 1 0
eamwork	7 pts max
Company demonstrates that the vehicle (and the report) was a company effort Company demonstrates that its members, and not mentors or working	2 1 0
professionals, designed and built vehicle, particularly electrical and software	2 1 0
Company developed specific assignments to design/build the vehicle	2 1 0
Company developed a schedule to aid in building the vehicle	1 0
cknowledgements	3 pts max
Companies, individuals who contributed funds, equipment, and/or technical/moral	
support are acknowledged	2 1 0
Recognizes donations of funds, supplies and time	1 0 -1
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	hnical Report Scor
iscretionary Points	3 pts max
Bonus points for extraordinary work	3 2 1
eductions	-15 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
Lacks software block diagram or flow chart, if applicable	-2
Overuse of commercial components without adequate justification	0 -3 -5
Over use of appendices	-3
Technical	Report Total Score
omments:	