

2020 MATE ROV COMPETITION ENGINEERING PRESENTATION SCORE SHEET - RANGER AND EXPLORER

Judge Name (First Last):

See Instruction Tab

Competition Class:

See Instruction Tab

Company #:

COMPANY/SCHOOL NAME: N/A

Final Score	0
Safety Score	0



Category	Criteria	Scoring Requirements	Enter your scores here	Raw Score	Points Possible by category	Raw %	Weight	Category Score	Comments
Safety				0	12	0%	10%	0.00	
	Content								
	Safety measures	Presentation highlighted safety features and philosophy		0					
		Described other vehicle-specific safety precautions related to tasks		0					
		Described how well the team's safety philosophy covers personnel, equipment, and operational safety		0					
Team Presentation				0	36	0%	20%	0.00	
	Preparation								
		All team members contributed to the presentation or Q&A		0					
		Company was well prepared for the presentation		0					
	Delivery								
		Presentation was dynamic, clear, and informative		0					
	Teamwork								
		Demonstrated project was a collaborative effort with each member contributing		0					
		Company seemed cohesive, inclusive, and supportive		0					
		Company demonstrated self-teaching/mentoring among team members		0					
		Acknowledgement of donors of funds, materials, equipment		0					
	Lessons Learned								
		Described most significant technical lessons learned, can be related to a challenge encountered		0					
		Described most significant interpersonal or management lessons learned, can be related to a challenge encountered		0					
Theme/Tasks				0	8	0%	10%	0.00	
	Content								
		Presentation described the real world missions and clearly linked aspects of the design to the theme and mission tasks		0					
		Demonstrated an understanding of how their ROV's systems, specifications, and functions were designed to perform to the mission tasks		0					
Overall Design/Workmanship				0	20	0%	25%	0.00	
	Content								
		Overall design is company's own, well-conceived, and executed (both functionally and aesthetically)		0					
		Design/Workmanship is robust and shows skillful execution		0					
		Design is modular and serviceable, i.e. readily field repairable		0					
		Demonstrated thought to marketability/usability by others		0					
		Discussed the extent to which the vehicle was tested prior to the event		0					
System Design				0	24	0%	35%	0.00	
	Engineering Design Rationale								
		Described an overview of the vehicle as an overall system and its subsystems		0					
		Described the engineering reasoning behind the vehicle systems and components		0					
		Data was used to compare and select from among alternative designs/tooling		0					
	Theme								
		Described how the vehicle design and tooling meet mission requirements (i.e., accomplish mission tasks)		0					
	Build vs. buy, new vs. used								
		Explained build (in-house) vs. buy (outsource) decisions and how they related to mission requirements		0					
		Explained new vs. re-used/inherited decisions and how reused components meet requirements for this year.		0					

0	100	100%	0.00	Base Score
Raw Score	Max Points (cat)	Total % (check:100)		

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							Weight		
Discretionary Points			0-4 pts each	0	16		100%	0	Discretionary points
	Exceptional design and innovation demonstrated in vehicle design, tools, or other feature			0					
	Developed exceptional original software or made exceptional adaptation of software to create a unique solution			0					
	Demonstrated remarkable effort to design and manufacture every component of the vehicle			0					
	Other (Explanation/example is required in comments)			0					
Deductions			0-4 pts each	0	12		100%	0	Deduction points
	Significant interference by coaches, mentors, parents providing assistance during presentation and/or design/build process (with exception of language barriers)			0					
	Significant overuse of commercial components without adequate justification			0					
	Significant overuse of re-used components without adequate justification			0					
								0	Final Score
Other Comments									