

TEAM NAME: _____ TOTAL POINTS: _____

ROBOT DESIGN JUDGING CRITERIA

The National WWII Museum Robotics Challenge 2020

Circle the box that best describes the team's work.

Exemplary (4 pts)	Advanced (3 pts)	Proficient (2 pts)	Beginning (1 pt)
Clear strategy to complete 2+ challenges in one mission more than once	Clear strategy to complete 2+ challenges in one mission one time	Clear strategy to complete many single-challenge missions	Inefficient strategy to complete few missions
Unique feature that contributes significantly to robot success	Unique feature that contributes somewhat to robot success	Unique feature with no contribution to robot success	No unique feature
No repairs needed	Repairs needed once	Repairs needed twice	Repairs needed three times or more
No driver intervention needed, robot moves as intended	Occasional driver intervention, robot moves as intended most of the time	Frequent driver intervention needed to aim or retrieve robot	Frequent driver intervention needed to aim and retrieve robot
Team engages others in their enthusiasm and fun; creative team dress	Team is enthusiastic and fun; creative team dress	Some creative dress and some enthusiasm	Minimal creative dress or enthusiasm

Tally sheet for score-keeper:

of 2+ challenges completed in one mission:

of repairs:

of incidents of driver intervention:

Comments to team:

TEAM NAME: _____ TOTAL POINTS: _____

PROJECT JUDGING CRITERIA

The National WWII Museum Robotics Challenge 2020

Circle the box that best describes the team's work.

Exemplary (4 pts)	Advanced (3 pts)	Proficient (2 pts)	Beginning (1 pt)
Meets ALL guidelines and requirements for project	Meets almost all guidelines and requirements for project	Meets some guidelines and requirements for project	Does not meet for fit within project guidelines
All concepts, facts and calculations are accurate and correct	Almost all concepts, facts and calculations are accurate and correct	Many concepts, facts and calculations are accurate and correct	Significant errors mar communication and conclusions
Written and visual communication about the project is very clear and high quality	Written and visual communication about the project is mostly clear and medium quality	Written and visual communication about the project is of some clarity	Significant lack of clarity in written and visual presentation
Oral communication about the project is very clear	Oral communication about the project is fairly clear	Oral communication about the project is somewhat clear	Significant lack of clarity in oral presentation
Clever and/or creative use of approach, concepts or engineering	Some novelty in use of approach, concepts or engineering	The approach, concepts or engineering are interesting	The approach, concepts or engineering are commonplace

Comments to team:

TEAM: _____ MATCH: _____

CHALLENGE	DESCRIPTION	POINTS POSSIBLE	POINTS ACHIEVED
Trigger	Mouse trap triggered by paper ball	70	
Life in a Secret City	Bowling pin touching the red dot Hanford Bowling pin touching gray city of Hanford	40 25	
Underground Science	Pencil in cardboard box	30	
Mr. Einstein	Letter touching the red dot of Long Island	20	
Trinitite	Trinitite pieces touching red dot of Alamogordo Trinitite pieces touching gray structure of Alamogordo	50 30	
Shinkolobwe Mine	Boat back to home base	30	
Superfund St. Louis	Barrel of waste back to home base	30	
U-235	Fidget spinner touching red dot of Oak Ridge Fidget spinner touching gray city of Oak Ridge	40 25	
The Plutonium Project	Plutonium touching red dot in Los Alamos Plutonium touching gray city in Los Alamos	70 50	
Heavy Water Wars	Water molecule back to home base Deuterium molecule to Sylacauga	25 50	
Espionage	KGB folder back to home base Message decoded	35 70	
Doomsday Clock	Robot hits the Doomsday Clock	-20	
Penalty	Team touches robot in play area	-20	
		TOTAL POINTS	/500