

## Brigham Young University AUVSI Capstone Team (Team 45)

## Requirements Matrix



ID	Rev.	Date	Description	Author	Checked By		
RM-001	0.1	09-07-	Fall camp draft	Brady Moon	Jacob Willis		
		2018					
RM-001	0.2	09-14-	Revisions after	Derek Knowles	Kameron Eves		
		2018	design review				
RM-001	1.1	10-08-	Expansion for	Kameron Eves	Brandon		
		2018	stage approval		McBride		



		Market Responce	Good	Very Good	Very Good	Very Good	Very Good	Good				
JunoO	səijlisnə	_	9	>	>	>	<u>&gt;</u>	9	2%	0	0	٩١
ON/səY	omplies with AMA Safety Code	+							)% 2	λ		
								_	4% 10% 10% 10%			
Feet	UGV Stop Distance to Target Location						_		% 10	0	0	
Feet	Payload Drop Distance to Target Location						•		10%	0	g	97
Percent	Percent of Objects Autonomously Submitted			•		•			4%	0	100	100
Percent			•			•			6%	0	100	100
Percent						•			%9	0	001	100
Percent	Percent of Correct Characteristics Identified					•			4%	0	100	100
Percent	Percent of Obstacles Hit			•	•				20%	0	0	100
Feet	Average Minimum Distance to Waypoint			•			•	•	10% 20% 4%	0	0	100
Percent	ercent of Waypoints Hit	4		•					5%	0	100	100
Minutes	amiT Jright Time	/ ო		•					%8	3	50	01⁄2
Minutes	Processing Time	7 E	•						2%	0	0	01
Minutes	ilight Time	4 ~	•						%9	3	50	30
stinU	erformance Measures	Importance	10%	20%	20%	20%	20%	10%	Importance	Lower Acceptable	laeal	Upper Acceptable
	Product: UAS Subsystem: N/A  Notes: UAS = Unmanned Aerial System UGV = Unmanned Ground Vehicle	Market Requirements	1 The UAS shall be capable of a timely completion of the mission.	The UAS shall be capable of autonomous flight.	3 The UAS shall be capable of avoiding static obstacles.	4 The UAS shall be capable of visual object classification.	5 The UAS shall be capable of delivering a payload.	6 The UAS shall be capable of safe operation.				

