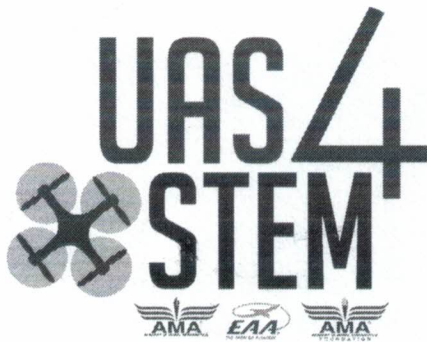




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2022 Nationals

Date:

7/27/2022

Judge:

Jacob Tower

Team Name:

Some
Assembly
Required

Oral Briefing of a Flight Rediness Review (FRR)

Criteria	Weighting	Points (0 - 10)
4.4.6.2.1 Introductions	1	9
4.4.6.2.2 Overview	1	9
4.4.6.2.3 Safety	1	9
4.4.6.2.4 Test Results	3	8
4.4.6.2.5 Mission	1	9
4.4.6.2.6 Briefing	2	9
4.4.6.2.7 Participation	1	9

didn't mention safety checks/checked lists

5 Questions (1 Point Each)

4.4.6.2.8 Judges Questions

1

5

+++

Comments: - Autonomy - assisted pickup during manual flight phase
 - Does the flip from LOET to STAB happen autonomously?
 - ~~Does your~~ How do you account for obstacles in use of ATH
 from w/o pickup (close to a takeoff)
 - Good explanation of team comms
 - Creative grapple

26:00 presentation
 3:44:00 after questions

Answers.

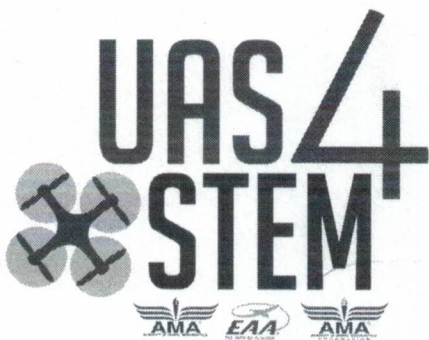
1 Nautical

2 False

3 Zulu

4 100 mph

5 Delta - TFR



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Rockville, MD

2022 Nationals

Date:

July 27, 2022

Judge:

TERRI

Team Name:

S.A.R.

Oral Briefing of a Flight Readiness Review (FRR)

Criteria	Weighting	Points (0 - 10)
4.4.6.2.1 Introductions	1	8
4.4.6.2.2 Overview	1	8
4.4.6.2.3 Safety	1	6
4.4.6.2.4 Test Results	3	9
4.4.6.2.5 Mission	1	7
4.4.6.2.6 Briefing	2	7
4.4.6.2.7 Participation	1	10
5 Questions (1 Point Each)		
4.4.6.2.8 Judges Questions	1	5

Autonomous takeoff
Q. How many seconds?
A

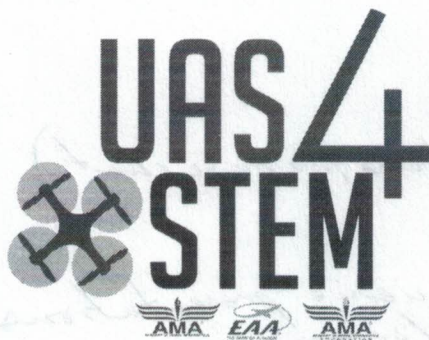
→ MEAW Motorized Elastic
Assisted web.
(good video embedded)
→ person talking stepped forward.

Involved in local community science
Created ATMOS camera gimbal (for next year)
24.57 mins

Comments:

Working on AI → team member in Silicon Valley
Algorithms → single core → slow. (Feature Matching for next year)
Good comms plan.
Pre & Post Flight Checklist.
Performed test flights

* Water bottle system
'cost analyst' criteria for new design.
prototype testing.



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2022 Nationals

some assembly

Date:

July 27, 2022

Judge:

MIRA MARQUEZ

Team Name:

SAR ^{some ASSEMBLY} _{REQUIRED}

Oral Briefing of a Flight Rediness Review (FRR)

Criteria	Weighting	Points (0 - 10)	
4.4.6.2.1 Introductions	1	7	7
4.4.6.2.2 Overview	1	8	8
4.4.6.2.3 Safety	1	10	8
4.4.6.2.4 Test Results	3	9	
4.4.6.2.5 Mission	1	9	
4.4.6.2.6 Briefing	2	9	
4.4.6.2.7 Participation	1	10	

5 Questions (1 Point Each)

4.4.6.2.8 Judges Questions	1	5
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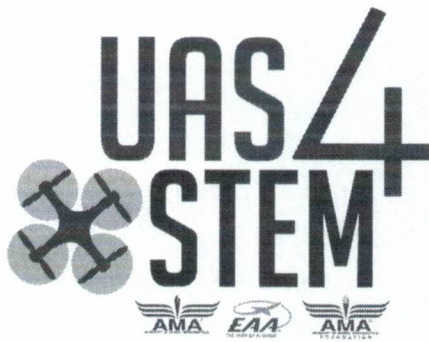
(Maryland)

Comments: Vishesh, David, Jasmine, Nathan, Mahamad

- 3D CAD models - made a 3D printed low cost model
- realized initial test was too heavy
- pick up attempts knocked over bottle
- Inexact landing due to offset camera

MEAW - Motorized elastic Assisted Web (mod for improving mission effectiveness)

- Love the team energy & comfortability w/ each other
- Actually feels like a team



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2022 Nationals

Date:

7/27/22

Judge:

Lynn Balderrama

Team Name:

SAR

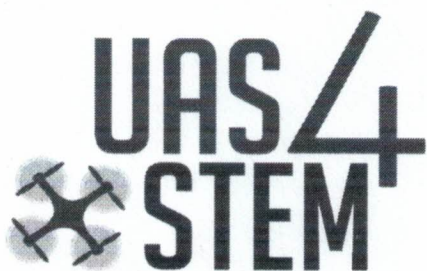
Oral Briefing of a Flight Rediness Review (FRR)

Criteria	Weighting	Points (0 - 10)
4.4.6.2.1 Introductions	1	8
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4.4.6.2.6 Briefing	2	9
4.4.6.2.7 Participation	1	7

5 Questions (1 Point Each)

4.4.6.2.8 Judges Questions	1	5	'''
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Comments: Good level of preparation to speak in turn & with time constraints given. Could project voices more in this environment. Presentation slides organized & legible; effective use. Each participant understands their role & how to communicate how each role interacts with the others of those on the team. Extensive description of development & testing. Referred back to the importance of safety during other segments of the presentation. Good job pulling from negative/learning experiences in the past to utilize & grow for the current mission. Participation heavier for some team members than others, during presentation/AMA



SEARCH AND RESCUE CHALLENGE

2022 Nationals:

Date: 7/28/22

Judge:

Joe Allen / Terri Chase

Team Name:

Some Assembly Required

Flight Mission Demonstration

	Minutes	
Stage	Max	Actual
Setup	15	<u>15</u>
Flight Time	30	
Post Processing	10	

Autonomous Flight Tasks

Segment	Max	Points	Command
Takeoff	4	<u>4</u>	
WP1	1	<u>1</u>	<u>1</u>
WP2	1	<u>1</u>	<u>1</u>
WP3	1	<u>1</u>	<u>1</u>
WP4	1	<u>1</u>	<u>1</u>
WP5	1	<u>1</u>	<u>1</u>
WP6	1	<u>1</u>	<u>1</u>
WP7	1	<u>1</u>	<u>1</u>
WP8	1	<u>1</u>	<u>1</u>
Landing	4	<u>4</u>	

went to home point, then held for 10 sec

Payload Pickup and Delivery (Autonomy Score)

	Pickup	Delivery	Distance
1	<u>1</u>	<u>1</u>	<u>1</u>
2	<u>1</u>	<u>1</u>	<u>1</u>
3	<u>1</u>	<u>1</u>	<u>1</u>

Safety Score:

7.5

no vo, full reliance on camera and AP