

The 2013 AIAA/Cessna Aircraft Company/Raytheon Missile Systems Design/Build/Fly Competition Flyoff was held at TIMPA Field in Tucson, AZ on the weekend of April 19-21, 2013. This was the 17th year the competition was held. Of the 90 entries this year, 81 teams submitted written reports to be judged and were eligible to participate in the flyoff. Sixty teams attended the flyoff, of which 55 completed the technical inspection (five teams attended even though their airplanes had irreparable damage prior to the competition). Over 600 students, faculty, and guests were present. The weather was sunny and warm allowing for non-stop flying. Of the 186 official flight attempts, 95 resulted in a successful score divided among 54 teams. Twelve teams successfully completed all three missions. The quality of the teams, their readiness to compete, and the execution of the flights continues to improve each year.

The contest theme this year was the Joint Strike Fighter. The first mission was a Short Take-off mission with no payload followed by a Stealth mission with internal payload only and a Strike mission which consisted of 6 possible payload configurations with various combinations of internal and external stores. The configuration for each mission 3 attempt was determined by a role of the dice by each team immediately prior to their flight attempt. As usual, the total score is the product of the flight score and written report score. More details on the mission requirements can be found at the competition website: http://www.aiaadbf.org.

First Place went to the University of California Irvine, Second Place went to San Diego State University and Third Place went to Rensselaer Polytechnic Institute. A full listing of the results is included below. The Best Paper Award, sponsored by the Design Engineering TC for the highest report score, went to Cornell University with a score of 96.00.

We owe our thanks for the success of the DBF competition to the efforts of many volunteers from Cessna Aircraft, Raytheon Missile Systems, and the AIAA sponsoring technical committees: Applied Aerodynamics, Aircraft Design, Flight Test, and Design Engineering. These volunteers collectively set the rules for the contest, publicize the event, gather entries, judge the written reports, and organize the flyoff. Thanks also go to the corporate Sponsors: Raytheon Missile Systems and Cessna Aircraft Company, and also to the AIAA Foundation for their financial support. Special thanks go to Raytheon Missile Systems for hosting the flyoff this year.

Finally, this event would not be nearly as successful without the hard work and enthusiasm from all the students and advisors. If it weren't for you, we wouldn't keep doing it.

Russ Althof For the DBF Governing Committee

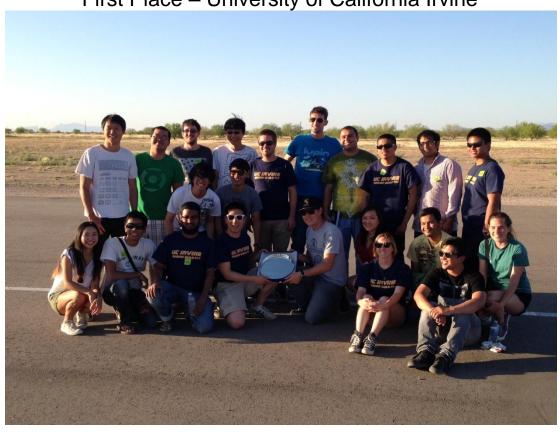
2013 Design/Build Fly Competition Final Results

Place University Score M1 M2 M3 Score	2.25 2.49 2.28 2.38 2.09 1.15 2.25 2.80 2.86 2.65 2.03 4.05 1.58 2.90 2.03 2.49 2.51 1.83 3.69 2.44 2.39 2.78 2.17	Final Score 369.87 350.68 317.55 317.03 250.67 246.50 235.87 203.19 202.03 183.99 172.76 167.34 155.87 151.36 114.12 113.23 108.97 106.11 101.53 96.79 96.38 96.23 95.80 95.05
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21 Hong Kong University of Science and Technology 79.00 1.25 1.67 0.00 2.92 22 University of Ljubljana 82.18 1.25 2.00 0.00 3.25 23 Cal Poly SLO 80.50 1.25 1.33 0.00 2.58 24 Chulalongkorn University 85.75 1.50 1.33 0.00 2.83 25 SUNY at Buffalo 84.75 1.00 2.00 0.00 3.00 26 Johns Hopkins University 88.75 1.00 1.00 0.00 2.00 27 Georgia Tech 92.00 1.25 0.00 0.00 1.25 28 University of Maryland 70.85 1.00 1.33 2.55 4.88 29 University of Arkansas 92.75 0.75 1.33 0.00 2.08	2.39 2.78 2.17	96.38 96.23 95.80
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23 Cal Poly SLO 80.50 1.25 1.33 0.00 2.58 24 Chulalongkorn University 85.75 1.50 1.33 0.00 2.83 25 SUNY at Buffalo 84.75 1.00 2.00 0.00 3.00 26 Johns Hopkins University 88.75 1.00 1.00 0.00 2.00 27 Georgia Tech 92.00 1.25 0.00 0.00 1.25 28 University of Maryland 70.85 1.00 1.33 2.55 4.88 29 University of Arkansas 92.75 0.75 1.33 0.00 2.08	2.17	95.80
24 Chulalongkorn University 85.75 1.50 1.33 0.00 2.83 25 SUNY at Buffalo 84.75 1.00 2.00 0.00 3.00 26 Johns Hopkins University 88.75 1.00 1.00 0.00 2.00 27 Georgia Tech 92.00 1.25 0.00 0.00 1.25 28 University of Maryland 70.85 1.00 1.33 2.55 4.88 29 University of Arkansas 92.75 0.75 1.33 0.00 2.08		
25 SUNY at Buffalo 84.75 1.00 2.00 0.00 3.00 26 Johns Hopkins University 88.75 1.00 1.00 0.00 2.00 27 Georgia Tech 92.00 1.25 0.00 0.00 1.25 28 University of Maryland 70.85 1.00 1.33 2.55 4.88 29 University of Arkansas 92.75 0.75 1.33 0.00 2.08	2.56	95 N5
26 Johns Hopkins University 88.75 1.00 1.00 0.00 2.00 27 Georgia Tech 92.00 1.25 0.00 0.00 1.25 28 University of Maryland 70.85 1.00 1.33 2.55 4.88 29 University of Arkansas 92.75 0.75 1.33 0.00 2.08		<i>J</i> J.03
27 Georgia Tech 92.00 1.25 0.00 0.00 1.25 28 University of Maryland 70.85 1.00 1.33 2.55 4.88 29 University of Arkansas 92.75 0.75 1.33 0.00 2.08	2.79	91.23
28 University of Maryland 70.85 1.00 1.33 2.55 4.88 29 University of Arkansas 92.75 0.75 1.33 0.00 2.08	1.95	91.16
29 University of Arkansas 92.75 0.75 1.33 0.00 2.08	1.32	87.04
- 	4.20	82.43
	2.35	82.35
30 Wichita State University 89.00 1.50 0.00 0.00 1.50	2.12	62.96
31 Erciyes University 74.50 1.00 1.33 0.00 2.33	3.11	55.95
32 University of Washington 66.50 1.25 1.33 0.00 2.58	3.18	53.95
33 University of Strathclyde 86.00 0.50 1.33 0.00 1.83	3.56	44.24
34 Politehnica Bucharest 90.00 1.25 0.00 0.00 1.25	2.83	39.72
35 Korea Advanced Institute of Science and Technology 62.00 0.25 2.00 0.00 2.25	3.98	35.09
36 North Dakota State University 69.00 0.50 1.33 0.00 1.83	3.90	32.46
37 New Mexico State University 69.58 0.75 0.67 0.00 1.42	3.16	31.18
38 Clarkson University 78.50 0.75 0.00 0.00 0.75	2.85	20.66
39 Khalifa University 82.00 0.75 0.00 0.00 0.75	3.02	20.39
40 Military Institute of Science & Technology 85.75 0.25 0.67 0.00 0.92	4.11	19.14
41 University of New Hampshire 68.00 0.75 0.00 0.00 0.75	4.13	12.36
42 Columbia University 81.50 0.50 0.00 0.00 0.50	3.68	11.08
43 Monroe Community College 58.25 0.50 0.00 0.00 0.50	2.71	10.73
Ghulam Ishaq Khan Institute of Engineering Sciences 8 63.50 0.25 0.00 0.00 0.25	2.32	6.84
45 Auburn University 87.50 0.25 0.00 0.00 0.25		6.52
46 University of California San Diego 89.50 0.25 0.00 0.00 0.25	3.35	
47 University of Massachusetts Lowell 1.00 0.50 0.33 0.00 0.83	3.35	5.99

2013 Design/Build Fly Competition Final Results (cont)

		Report				Flight		Final
Place	University	Score	M 1	M 2	M 3	Score	RAC	Score
48	University of Central Florida	90.50	0.00	0.00	0.00	0.00	N/A	
49	University of Illinois at Urbana Champaign	89.50	0.00	0.00	0.00	0.00	N/A	ıρt
50	Rose Hulman Institute of Technology	86.00	0.00	0.00	0.00	0.00	N/A	ten
51	City College of New York	82.00	0.00	0.00	0.00	0.00	N/A	: At
52	West Virginia University	81.94	0.00	0.00	0.00	0.00	N/A	Flight Attempt
53	New Mexico Tech	72.50	0.00	0.00	0.00	0.00	N/A	
54	University of Kentucky Paducah	25.75	0.00	0.00	0.00	0.00	N/A	
55	University of Tennessee Knoxville	79.50	0.00	0.00	0.00	0.00	N/A	*
56	University of California Los Angeles	95.25	0.00	0.00	0.00	0.00	N/A	
57	University of Notre Dame	81.00	0.00	0.00	0.00	0.00	N/A	off
58	Concordia University	80.00	0.00	0.00	0.00	0.00	N/A	At Flyoff
59	Syracuse University	66.95	0.00	0.00	0.00	0.00	N/A	At
60	Daniel Webster College	64.13	0.00	0.00	0.00	0.00	N/A	
61	University of Florida	88.50	0.00	0.00	0.00	0.00	N/A	
62	Embry-Riddle Aeronautical University Prescott AZ	87.63	0.00	0.00	0.00	0.00	N/A	
63	Arizona State University	85.75	0.00	0.00	0.00	0.00	N/A	
64	TOBB University of Economics and Technology	85.25	0.00	0.00	0.00	0.00	N/A	
65	University of Nebraska-Lincoln	82.50	0.00	0.00	0.00	0.00	N/A	
66	Bozok University	81.00	0.00	0.00	0.00	0.00	N/A	
67	Southern Illinois University	75.25	0.00	0.00	0.00	0.00	N/A	
68	University of Arizona	75.00	0.00	0.00	0.00	0.00	N/A	çç
69	Washington State University	73.75	0.00	0.00	0.00	0.00	N/A	oor
70	Florida A&M University - Florida State University	71.20	0.00	0.00	0.00	0.00	N/A	Rep
71	University of Alabama	68.50	0.00	0.00	0.00	0.00	N/A	Submitted Reports
72	Iowa State University	66.50	0.00	0.00	0.00	0.00	N/A	nitt
73	Duke University	61.50	0.00	0.00	0.00	0.00	N/A	uqr
74	Embry-Riddle Aeronautical University	58.50	0.00	0.00	0.00	0.00	N/A	S
75	Florida Institute of Technology	56.05	0.00	0.00	0.00	0.00	N/A	
76	Manhattan College	48.50	0.00	0.00	0.00	0.00	N/A	
77	Amity University	45.00	0.00	0.00	0.00	0.00	N/A	
78	University of Colorado at Colorado Springs	44.85	0.00	0.00	0.00	0.00	N/A	
	Rice University	41.50	0.00	0.00	0.00	0.00	N/A	
80	California State University Long Beach	38.30	0.00	0.00	0.00	0.00	N/A	
81	Instituto Politecnico Nacional	36.15	0.00	0.00	0.00	0.00	N/A	

First Place – University of California Irvine



Second Place – San Diego State University



Third Place – Rensselaer Polytechnic Institute

