

AirCargoChallenge 2022

Final Results Flights

10.07.2022

Introduction

The Air Cargo Challenge (ACC) is a competition aimed at engineering students. It was created to excite students for aviation and to experience the challenges of an engineering task. Within 10 months, an unmanned aircraft is designed and built to compete against other teams from all over the world. The main task of the aircraft is to transport a payload. The AkaModell Munich successfully competed against 27 other teams in the Air Cargo Challenge 2019. As the winner of the competition, we are organizing the next event in the summer of 2022 in Munich.

About AkaModell Munich:

We are a club of engineering and aerospace students at the Technical University of Munich, founded in 1999. We do basic research, theoretical development, design, construction and finally flight testing of remote-controlled model aircraft. Our goal is to supplement the education of students at TU Munich by successfully applying our theoretical knowledge to practical problems. In the last 21 years we designed 19 "official" aircrafts. Some of them can be built for private flying and gained a big interest within our group.

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1 HOW THE FLIGHT LOGS ARE EVALUATED

For evaluation of the flights, a logging device is used. It records GPS and barometric altitude data. Details about the system can be found in the official regulations document, as well as information on how the score of a flight is calculated.

The logging device records data on a micro-SD card, one card is specifically assigned to one team and in total five logging devices are used. After each flight, logger and SD-card are returned. The logger is charged and after some minutes handed out for the next team. The SD-card remains in a folder containing the team's payload announcement sheets, the round protocol sheets and the technical inspection sheet. After one flight (including unloading procedure), the folder is handed over for log analysis and score calculation.

The log file (.nmea) is parsed by a homemade software written in VB.NET with Visual Studio. It detects the take-off time¹ and calibrates the altitude reading to 0 Meters. 60 seconds later, the altitude for the climb score is read from the log. During the next 120 seconds, the ground distance between the logged positions are summed up, except the altitude is below 10 Meters. The sum of distance is used for the cruise score. Payload and times for the (un-) loading bonus need to be entered manually from the jury records in the round protocol. Also, the 40 Meter option for take-off distance is entered manually. In case the flight area was left, the landing was not on the airfield, the maximum take-off distance was surpassed, the flight was above 120 Meters, or the plane lost parts on landing the flight is invalid and scored with zero points. When a flight is invalid, no bonus points can be awarded.

To ensure the correct automatic score calculation is correct, the software shows the flight trajectory on a map and a plot of altitude and speed. In case of bad GPS precision, warnings are displayed.

¹ Ground-speed above 5km/h, compare regulations

Contest Director

Competition Rounds Flights Teams Penalties View C:\Users\alex\OneDrive\Akamodell\ACC21_Wettbewerb.acc

Rounds

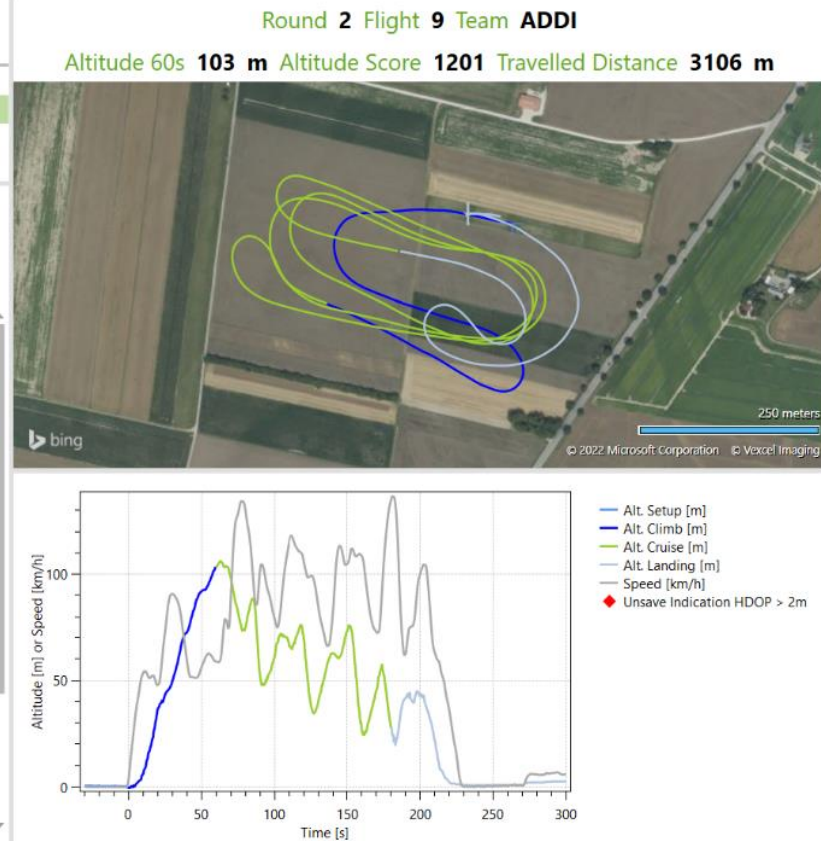
#	AIR DENSITY	FLIGHTS TOTAL	CLOSED
1	1.127	24	<input checked="" type="checkbox"/>
2	1.155	24	<input checked="" type="checkbox"/>
3	1.155	24	<input checked="" type="checkbox"/>
4	1.164	24	<input checked="" type="checkbox"/>

Flights of Round 2

All Information Print View

FLIGHT #	TEAM #	TEAM NAME	FLIGHT SCORE	SCORE	PAYLOAD	LOADING TIME	UN-LOADING TIME	40M	NME
1	19	Xtra2	902	902	1.21	10.89	9.68	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	5	Chicken Wings BUT	913	913	1.305	13.62	5.16	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	12	AeroUD	1202	1202	3.209	18.5	6.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	16	AkaModell	1077	1077	2.416	21.7	12.18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	18	Chicken Wings CTU	872	872	1.312	11.31	3.21	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	27	LeanIng	330	330	0	-1	-1	<input type="checkbox"/>	<input type="checkbox"/>
7	14	LiftUP	0	0▲	2.213	11.31	-1	<input type="checkbox"/>	<input type="checkbox"/>
8	10	ASAT	815	815	1.201	26.5	7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	13	ADDI	1207	1207	2.718	15.75	5.68	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	6	OliSSipo	0	0▲	2.418	41.32	-1	<input type="checkbox"/>	<input type="checkbox"/>
11	23	U-Fly	558	558	1	49.78	24.54	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	20	HUSZ Falcons	715	715	0.805	40.52	6.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	1	Trencalos	395	395	0.605	15.3	-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	22	Icarus PolITO	977	977	0.905	3.63	4.81	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	2	UVigo Aerotech	0	0▲	0.606	2.71	-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	28	Tophane Aygok	0	0▲	1.209	49	-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	15	Albatros	487	487	0	-1	-1	<input type="checkbox"/>	<input type="checkbox"/>
18	29	WUT	0	0▲	0.595	5.2	-1	<input type="checkbox"/>	<input type="checkbox"/>
19	25	UAMFinn	0	0▲	0.102	50	-1	<input type="checkbox"/>	<input type="checkbox"/>

Contest Teams Penalties



Because of the relative scoring system with 1000 Points maximum per cruise/altitude/payload score and bonuses, the flight scores are recalculated each time a log is added.

There is an overview of all teams and their flight scores in the software, adding scores of reports, videos, drawings and penalties for the total score in the competition.

NUMBER	NAME	CITY	COUNTRY	SCORE	FLIGHTS	FLIGHT SCORE	REPORT	DRAWINGS	VIDEO	PENALTIES	PREDICTION FIX	PREDICTION LINEAR
1	Trencalos	Barcelona	Spain	378	4	132	147	44	56	0.8	-2.204	4.626
2	UVigo Aerotech	Ourense	Spain	216	4	0	95	48	78	4.9	0	0
3	THU AIR	Beijing	China	163	0	0	146	38	48	68.8	1.003	2.9
5	Chicken Wings BUT	Brno	Czech	1186	4	904	152	45	90	4.2	0	0
6	Olissipo	Lisboa	Portugal	1033	4	739	175	46	88	14.8	0.048	1.96
7	Beoavia	Belgrad	Serbia	725	4	501	152	42	30	0	-193.6	165
9	HERMES	Athens	Greece	7	0	0	108	39	0	140	0	0
10	ASAT	Thesaloniki	Greece	1047	4	825	165	40	78	61.2	-2.56	4.8176
11	ITU Sky-UAV	Istanbul	Turkey	391	4	349	135	26	42	161.5	-2.122	3.12
12	AeroUD	Udine	Italy	1508	4	1,196	172	46	94	0	1.414	1.515
13	ADDI	Aachen	Germany	1540	4	1,243	178	46	75	2	0.66	2.19
14	LiftUP	Padua	Italy	1185	4	878	181	46	100	20	-0.407	1.962
15	Albatros	Tampere	Finland	285	4	162	54	25	58	14.1	0	0
16	AkaModell	Stuttgart	Germany	1306	4	1,059	175	48	60	36.6	0.925	2.5
18	Chicken Wings CTU	Prague	Czech	1142	4	889	143	47	70	7.1	-3.247	4.7059
19	Xtra2	Valencia	Spain	1207	4	926	170	46	65	0	-2.271	3.085
20	HUSZ Falcons	Zagreb	Croatia	798	4	704	134	39	81	160.29999999999998	0	0
21	JetStream	Wroclaw	Poland	1111	4	866	146	42	75	18	15.633	-0.0004
22	Icarus POLITO	Torino	Italy	879	4	654	107	41	78	1	0.8541	0.9463
23	U-Fly	Querétaro	Mexico	914	4	654	176	47	58	21.200000000000003	0	0
24	Locreum	Cadiz	Spain	2	4	36	56	12	50	151.9	0	0
25	AeroUBI	Covilhã	Portugal	853	4	587	162	43	62	1.1	0.4235	2.468
26	HAWings	Hamburg	Germany	137	4	27	67	16	32	5.3	0	0.7347
27	LeanIng	Pisa	Italy	566	4	385	84	42	55	0	0	0
28	Tophane Aygök	Bursa	Turkey	464	4	300	104	34	30	4.8	0	0
29	WUT	Warsaw	Poland	204	4	0	126	38	52	11.6	-2.24	4.44

2 TOTAL SCORES

After four competition rounds, the results of the Air Cargo Challenge 2022 are:

Team No.	Team Name	City	Country	Total Score	Flight Score	Report	Drawings	Video	Penalties
13	ADDI	Aachen	Germany	1540	1243	178	46	75	2,0
12	AeroUD	Udine	Italy	1508	1196	172	46	94	0,0
16	AkaModell	Stuttgart	Germany	1306	1059	175	48	60	36,6
19	Xtra2	Valencia	Spain	1207	926	170	46	65	0,0
5	Chicken Wings BUT	Brno	Czech	1186	904	152	45	90	4,2
14	LiftUP	Padova	Italy	1185	878	181	46	100	20,0
18	Chicken Wings CTU	Prague	Czech	1142	889	143	47	70	7,1
21	JetStream	Wroclaw	Poland	1111	866	146	42	75	18,0
10	ASAT	Thesaloniki	Greece	1047	825	165	40	78	61,2
6	Olissipo	Lisboa	Portugal	1033	739	175	46	88	14,8
23	U-Fly	Querétaro	Mexico	914	654	176	47	58	21,2
22	Icarus PoliTO	Torino	Italy	879	654	107	41	78	1,0
25	AeroUBI	Covilhã	Portugal	853	587	162	43	62	1,1
20	HUSZ Falcons	Zagreb	Croatia	798	704	134	39	81	160,3
7	Beoavia	Belgrad	Serbia	725	501	152	42	30	0,0
27	LeanIng	Pisa	Italy	566	385	84	42	55	0,0
28	Tophane Aygök	Bursa	Turkey	464	300	104	34	30	4,8
11	ITU Sky-UAV	Istanbul	Turkey	391	349	135	26	42	161,5
1	Trencalos	Barcelona	Spain	378	132	147	44	56	0,8
15	Albatros	Tampere	Finland	285	162	54	25	58	14,1
2	UVigo Aerotech	Ourense	Spain	216	0	95	48	78	4,9
29	WUT	Warsaw	Poland	204	0	126	38	52	11,6
3	THU AIR	Beijing	China	163	0	146	38	48	68,8
26	HAWings	Hamburg	Germany	137	27	67	16	32	5,3
9	HERMES	Athens	Greece	7	0	108	39	0	140,0
24	Locreum	Cadiz	Spain	2	36	56	12	50	151,9

3 ROUND SCORES

All four rounds' details are listed below:

3.1 ROUND 1

Team Name	Score	40m	Payload [kg]	60s Alt.	Alt. Pre-Score	Cruise Distance	Score Climb	Score Cruise	Score Payload	Bonus Prediction	Bonus Loading	Bonus Un-Loading	Too Low	Too High	Shoother	Lost Parts	Left Area
ADDI	1266	<input checked="" type="checkbox"/>	3,011	106	1193	3079	992	1000	1000	48	49	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Olissipo	1140	<input checked="" type="checkbox"/>	2,409	82	1136	2856	944	928	800	47	45	54	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AkaModell	1027	<input checked="" type="checkbox"/>	2,412	55	938	2508	780	815	801	32	51	52	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LiftUP	1008	<input type="checkbox"/>	2,314	81	1130	2675	939	869	769	36	56	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chicken Wings CTU	853	<input checked="" type="checkbox"/>	1,304	79	1117	1661	929	539	433	32	52	58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chicken Wings BUT	819	<input type="checkbox"/>	1,207	84	1147	2393	953	777	401	0	54	55	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AeroUBI	819	<input type="checkbox"/>	1,209	101	1203	2723	1000	884	402	19	38	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASAT	808	<input checked="" type="checkbox"/>	0,907	61	990	2218	823	720	301	16	49	55	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HUSZ Falcons	686	<input type="checkbox"/>	0,605	59	972	2304	808	748	201	0	44	56	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beoavia	634	<input type="checkbox"/>	0,301	55	933	2161	776	702	100	0	50	58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U-Fly	602	<input type="checkbox"/>	1,202	45	835	1443	694	469	399	0	34	47	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AeroUD	0	<input checked="" type="checkbox"/>	3,215	78	0	1893	0	0	0	49	53	58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Xtra2	0	<input checked="" type="checkbox"/>	1,204	95	0	2406	0	0	0	50	54	55	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trencalos	0	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
JetStream	0	<input type="checkbox"/>	1,202	91	0	2260	0	0	0	4	57	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Icarus PoliTO	0	<input checked="" type="checkbox"/>	0,602	141	0	3033	0	0	0	16	58	57	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UVigo Aerotech	0	<input checked="" type="checkbox"/>	0,302	0	0	0	0	0	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LeanIng	0	<input type="checkbox"/>	0	-1	0	0	0	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tophane Aygök	0	<input type="checkbox"/>	0	1	0	0	0	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WUT	0	<input type="checkbox"/>	0	26	0	8	0	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Albatros	0	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAWings	0	<input type="checkbox"/>	0	44	0	1	0	0	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ITU Sky-UAV	0	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Locreum	0	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.2 ROUND 2

Team Name	Score	40m	Payload [kg]	60s Alt.	Alt. Pre-Score	Cruise Distance	Score Climb	Score Cruise	Score Payload	Bonus Prediction	Bonus Loading	Bonus Un-Loading	Too Low	Too High	Shoovover	Lost Parts	Left Area
ADDI	1207	<input checked="" type="checkbox"/>	2,718	103	1201	3106	1000	990	847	43	52	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AeroUD	1202	<input checked="" type="checkbox"/>	3,209	87	1166	2618	971	835	1000	49	51	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AkaModell	1077	<input checked="" type="checkbox"/>	2,416	79	1118	2656	931	847	753	32	49	54	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Icarus PolITO	977	<input checked="" type="checkbox"/>	0,905	112	1160	3136	966	1000	282	23	58	58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chicken Wings BUT	913	<input checked="" type="checkbox"/>	1,305	80	1124	2566	936	818	407	0	53	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Xtra2	902	<input checked="" type="checkbox"/>	1,21	70	1055	2304	878	735	377	47	55	55	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chicken Wings CTU	872	<input checked="" type="checkbox"/>	1,312	69	1051	2098	875	669	409	30	54	58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JetStream	852	<input checked="" type="checkbox"/>	1,204	80	1122	2062	934	658	375	4	57	58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASAT	815	<input checked="" type="checkbox"/>	1,201	52	907	2275	755	725	374	20	47	56	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HUSZ Falcons	715	<input type="checkbox"/>	0,805	75	1094	2166	911	691	251	0	40	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U-Fly	558	<input checked="" type="checkbox"/>	1	30	606	1428	505	455	312	0	35	48	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Albatros	487	<input type="checkbox"/>	0	48	862	2329	718	743	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trencalos	395	<input checked="" type="checkbox"/>	0,605	39	753	238	627	76	189	10	52	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LeanIng	330	<input type="checkbox"/>	0	26	520	1748	433	557	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LiftUP	0	<input type="checkbox"/>	2,213	0	0	0	0	0	0	40	54	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Olissipo	0	<input type="checkbox"/>	2,418	0	0	0	0	0	0	48	39	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UVigo Aerotech	0	<input checked="" type="checkbox"/>	0,606	0	0	0	0	0	0	0	59	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tophane Aygök	0	<input checked="" type="checkbox"/>	1,209	27	0	1	0	0	0	0	36	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
WUT	0	<input type="checkbox"/>	0,595	13	0	1	0	0	0	10	57	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HAWings	0	<input type="checkbox"/>	0,103	0	0	0	0	0	0	6	35	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ITU Sky-UAV	0	<input type="checkbox"/>	1,09	0	0	0	0	0	0	37	42	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Locreum	0	<input type="checkbox"/>	0,302	0	0	0	0	0	0	0	56	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Beoavia	0	<input type="checkbox"/>	0	69	0	1637	0	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AeroUBI	0	<input type="checkbox"/>	0	95	0	993	0	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.3 ROUND 3

Team Name	Score	40m	Payload [kg]	60s Alt.	Alt. Pre-Score	Cruise Distance	Score Climb	Score Cruise	Score Payload	Bonus Prediction	Bonus Loading	Bonus Un-Loading	Too Low	Too High	Shoother	Lost Parts	Left Area
ADDI	1255	<input checked="" type="checkbox"/>	2,913	100	1203	3070	1000	1000	968	46	49	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AeroUD	1176	<input checked="" type="checkbox"/>	3,009	68	1044	2653	868	864	1000	48	52	58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Olissipo	1076	<input type="checkbox"/>	2,41	102	1203	3029	1000	987	801	48	47	52	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AkaModell	1029	<input checked="" type="checkbox"/>	3,005	35	703	2422	584	789	999	39	52	54	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Icarus PoliTO	986	<input checked="" type="checkbox"/>	0,907	99	1203	3000	1000	977	301	23	57	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LiftUP	955	<input type="checkbox"/>	2,007	70	1052	2612	874	851	667	46	55	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chicken Wings CTU	941	<input checked="" type="checkbox"/>	1,509	74	1084	2229	901	726	501	34	54	58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Xtra2	941	<input checked="" type="checkbox"/>	1,206	81	1133	2312	942	753	401	47	54	56	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chicken Wings BUT	884	<input checked="" type="checkbox"/>	1,303	72	1069	2342	889	763	433	0	52	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JetStream	855	<input checked="" type="checkbox"/>	1,206	63	1003	2267	834	738	401	4	57	59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASAT	853	<input checked="" type="checkbox"/>	0,905	69	1051	2430	874	792	301	15	49	56	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HUSZ Falcons	712	<input type="checkbox"/>	1,004	61	984	2071	818	675	334	0	46	57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U-Fly	704	<input checked="" type="checkbox"/>	1,006	60	978	1602	813	522	334	0	38	46	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ITU Sky-UAV	426	<input type="checkbox"/>	0,6	25	504	1401	419	456	199	20	48	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LeanIng	366	<input type="checkbox"/>	0	31	622	1781	517	580	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beoavia	156	<input type="checkbox"/>	0,907	0	0	0	0	0	301	0	56	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Locreum	108	<input type="checkbox"/>	0	5	0	993	0	323	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAWings	82	<input checked="" type="checkbox"/>	0,199	-1	0	0	0	0	66	12	41	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AeroUBI	0	<input type="checkbox"/>	2,402	0	0	0	0	0	0	37	50	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Albatros	0	<input checked="" type="checkbox"/>	0,303	0	0	0	0	0	0	0	55	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trencalos	0	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UVigo Aerotech	0	<input type="checkbox"/>	0,3	0	0	0	0	0	0	0	59	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
WUT	0	<input type="checkbox"/>	0,602	0	0	0	0	0	0	10	51	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tophane Aygök	0	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.4 ROUND 4

Team Name	Score	40m	Payload [kg]	60s Alt.	Alt. Pre-Score	Cruise Distance	Score Climb	Score Cruise	Score Payload	Bonus Prediction	Bonus Loading	Bonus Un-Loading	Too Low	Too High	Shoother	Lost Parts	Left Area	
AeroUD	1209	<input checked="" type="checkbox"/>	3,01	92	1186	2732	987	839	1000	47	52		58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AkaModell	1072	<input checked="" type="checkbox"/>	2,407	73	1077	2661	896	818	800	31	50		56	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ADDI	1009	<input checked="" type="checkbox"/>	1,202	99	1202	3082	1000	947	399	19	57		59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AeroUBI	941	<input type="checkbox"/>	1,802	108	1186	3255	987	1000	599	27	52		0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Xtra2	934	<input checked="" type="checkbox"/>	1,201	90	1179	2275	981	699	399	45	55		56	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chicken Wings BUT	914	<input checked="" type="checkbox"/>	1,408	73	1080	2595	899	797	468	0	53		57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tophane Aygök	901	<input checked="" type="checkbox"/>	1,0035	96	1198	2704	997	831	333	0	47		52	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JetStream	891	<input checked="" type="checkbox"/>	1,201	94	1194	2215	993	680	399	4	56		59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chicken Wings CTU	836	<input checked="" type="checkbox"/>	1,505	42	801	2205	666	677	500	34	54		58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASAT	803	<input checked="" type="checkbox"/>	0,9	58	965	2339	803	719	299	15	52		56	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beoavia	713	<input type="checkbox"/>	0,901	71	1062	2020	884	621	299	0	54		58	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LiftUP	672	<input checked="" type="checkbox"/>	0	104	1199	2722	998	836	0	0	0		0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U-Fly	657	<input checked="" type="checkbox"/>	0,804	54	923	1576	768	484	267	0	42		49	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ITU Sky-UAV	622	<input type="checkbox"/>	0,603	52	907	1672	755	514	200	20	55		57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LeanIng	458	<input type="checkbox"/>	0	54	922	1973	767	606	0	0	0		0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Locreum	0	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0		0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
WUT	0	<input type="checkbox"/>	0,597	75	0	1814	0	0	0	10	0		0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HAWings	0	<input checked="" type="checkbox"/>	0,199	15	0	1139	0	0	0	12	0		0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UVigo Aerotech	0	<input type="checkbox"/>	0,0995	-1	0	0	0	0	0	0	59		0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Albatros	0	<input checked="" type="checkbox"/>	0,899	0	0	0	0	0	0	0	26		0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trencalos	0	<input checked="" type="checkbox"/>	0,099	0	0	0	0	0	0	2	50		0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HUSZ Falcons	0	<input type="checkbox"/>	1,604	0	0	0	0	0	0	0	43		0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Icarus PoliTO	0	<input checked="" type="checkbox"/>	1,203	0	0	0	0	0	0	31	57		0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Olissipo	0	<input type="checkbox"/>	2,407	104	0	2588	0	0	0	48	47		0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>