

Electric 2017

Overall Results

Place	Car Num	Team	Penalty	Cost Score	Presentation Score	Design Score	Acceleration Score	Skid Pad Score	Autocross Score	Endurance Score	Efficiency Score	Total Score
1	202	Univ of Pennsylvania	-20	83.0	75.0	120	100.0	71.2	125.0	275.0	94.0	923.2
2	206	Massachusetts Inst of Tech		69.6	70.4	110	61.6	70.9	120.8	265.8	88.4	857.5
3	211	Universidade Estadual de Campinas		69.2	64.3	135	97.8	75.0	122.7	10	92.4	666.5
4	205	Missouri University of Science and Tech		82.6	63.0	70	91.4	55.9	111.9	11	100.0	585.8
5	237	Univ of Washington		60.0	66.6	100				252.3	97.9	576.8
6	210	Univ of Calif - Davis		68.3	43.5	70	62.0	46.3	50.2	11	95.0	446.4
7	220	Virginia Tech		79.2	57.4	100			54.4	4		295.0
8	221	Univ of Wisconsin - Madison		68.8	71.7	150						290.5
9	208	California Polytechnic State Univ-SLO		64.3	70.6	110						245.0
10	217	Univ of Kansas - Lawrence		60.1	65.6	100						225.7
11	204	McGill Univ		58.2	74.4	90						222.6
12	233	Univ of Michigan - Dearborn		76.8	50.3	70						197.1
13	207	San Jose State University		64.0	27.5	100						191.5
14	227	Univ of Waterloo		81.7	31.2	70						182.9
15	231	Univ of North Carolina - Asheville		73.6	57.0	40						170.7
16	219	Univ of Illinois - Urbana Champaign	-40	70.8	38.1	70			6.5	25		170.5
17	234	Universidad Nacional Autónoma de México		66.5	50.3	40						156.8
18	238	Olin College of Engineering		53.0	50.9	40				5		148.9
19	224	Univ of Texas - Austin		55.2	41.2	40						136.4
20	213	San Diego State Univ		56.8	30.4	40						127.3
21	225	Univ of Utah		46.8	42.5	30						119.3
	203	Polytechnique Montréal										withdrawn
	212	Colorado State University										withdrawn
	214	Purdue Univ - W Lafayette										withdrawn
	215	California Institute of Technology										withdrawn
	222	Georgia Institute of Technology										withdrawn
	226	Université Laval										withdrawn
	228	Pakistan Navy Engineering College										withdrawn
	229	Univ of British Columbia										withdrawn

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Design Event Results

Place	Car Num	Team	Raw Score	Penalty	Status	Score
1	221	Univ of Wisconsin - Madison	150		Final	150
2	211	Universidade Estadual de Campinas	135		Final	135
3	202	Univ of Pennsylvania	120		Final	120
4 T	206	Massachusetts Inst of Tech	110			110
4 T	208	California Polytechnic State Univ-SLO	110			110
6 T	207	San Jose State University	100			100
6 T	217	Univ of Kansas - Lawrence	100			100
6 T	220	Virginia Tech	100			100
6 T	237	Univ of Washington	100			100
10	204	McGill Univ	90			90
11 T	205	Missouri University of Science and Tech	70			70
11 T	210	Univ of Calif - Davis	70			70
11 T	219	Univ of Illinois - Urbana Champaign	70			70
11 T	227	Univ of Waterloo	70			70
11 T	233	Univ of Michigan - Dearborn	70			70
16 T	213	San Diego State Univ	40			40
16 T	224	Univ of Texas - Austin	40			40
16 T	231	Univ of North Carolina - Asheville	40			40
16 T	234	Universidad Nacional Autónoma de México	40			40
16 T	238	Olin College of Engineering	40			40
21	225	Univ of Utah	30			30
	203	Polytechnique Montréal				
	212	Colorado State University				
	214	Purdue Univ - W Lafayette				
	215	California Institute of Technology				
	222	Georgia Institute of Technology				
	226	Université Laval				
	228	Pakistan Navy Engineering College				
	229	Univ of British Columbia				

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Presentation Event Results

Place	Car Num	Team	Score
1	202	Univ of Pennsylvania	75
2	204	McGill Univ	74.4
3	221	Univ of Wisconsin - Madison	71.7
4	208	California Polytechnic State Univ-SLO	70.6
5	206	Massachusetts Inst of Tech	70.4
6	237	Univ of Washington	66.6
7	217	Univ of Kansas - Lawrence	65.6
8	211	Universidade Estadual de Campinas	64.3
9	205	Missouri University of Science and Tech	63.0
10	220	Virginia Tech	57.4
11	231	Univ of North Carolina - Asheville	57.0
12	238	Olin College of Engineering	50.9
13 T	233	Univ of Michigan - Dearborn	50.3
13 T	234	Universidad Nacional Autónoma de México	50.3
15	210	Univ of Calif - Davis	43.5
16	225	Univ of Utah	42.5
17	224	Univ of Texas - Austin	41.2
18	219	Univ of Illinois - Urbana Champaign	38.1
19	227	Univ of Waterloo	31.2
20	213	San Diego State Univ	30.4
21	207	San Jose State University	27.5
	203	Polytechnique Montréal	
	212	Colorado State University	
	214	Purdue Univ - W Lafayette	
	215	California Institute of Technology	
	222	Georgia Institute of Technology	
	226	Université Laval	
	228	Pakistan Navy Engineering College	
	229	Univ of British Columbia	

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Cost Event Results

Place	Car Num	Team	Adjusted Cost	Price Score (40)	Report Score (20)	Part Content / Feasibility (20)	Real Case (20)	Penalty	Score
1	202	Univ of Pennsylvania	\$17,918	25.48	20	20	17.5		82.98
2	205	Missouri University of Science and Tech	\$17,310	27.05	17.53	20	18		82.58
3	227	Univ of Waterloo	\$18,275	24.6	17.11	20	20		81.72
4	220	Virginia Tech	\$20,382	20.07	19.09	20	20		79.16
5	233	Univ of Michigan - Dearborn	\$16,518	29.27	17.53	20	10		76.8
6	231	Univ of North Carolina - Asheville	\$13,530	40	14.64	18	1		73.64
7	219	Univ of Illinois - Urbana Champaign	\$23,146	15.37	15.46	20	20		70.83
8	206	Massachusetts Inst of Tech	\$22,293	16.69	15.88	17	20		69.57
9	211	Universidade Estadual de Campinas	\$23,898	14.28	14.96	20	20		69.24
10	221	Univ of Wisconsin - Madison	\$28,131	9.23	19.59	20	20		68.81
11	210	Univ of Calif - Davis	\$22,870	15.79	14.55	20	18		68.34
12	234	Universidad Nacional Autónoma de México	\$23,151	15.36	17.11	20	14		66.47
13	208	California Polytechnic State Univ-SLO	\$21,162	18.62	16.7	19	10		64.32
14	207	San Jose State University	\$30,651	6.88	17.11	20	20		63.99
15	217	Univ of Kansas - Lawrence	\$30,326	7.16	17.94	20	15		60.1
16	237	Univ of Washington	\$41,587		20	20	20		60
17	204	McGill Univ	\$24,101	13.99	14.23	20	10		58.22
18	213	San Diego State Univ	\$27,852	9.51	11.31	18	18		56.83
19	224	Univ of Texas - Austin	\$25,612	12.03	19.18	19	5		55.21
20	238	Olin College of Engineering	\$20,689	19.48	15.46	18			52.95
21	225	Univ of Utah	\$31,700	6.02	11.75	17	12		46.77
	203	Polytechnique Montréal							
	212	Colorado State University							
	214	Purdue Univ - W Lafayette							
	215	California Institute of Technology							
	222	Georgia Institute of Technology							
	226	Université Laval							
	228	Pakistan Navy Engineering College							
	229	Univ of British Columbia							

Acceleration Event Results

Electric 2017

Minimum Time (seconds) 4.095
 Maximum Time (seconds) 6.143 150%

Cone Penalty (seconds) 2

Place	Car Num	Team	Run #1			Run #2			Run #3			Run #4			Final	
			Time	Cones	AdjTime	Time	Cones	AdjTime	Time	Cones	AdjTime	Time	Cones	AdjTime	Best Time	Score
1	202	Univ of Pennsylvania	4.242		4.242	4.260		4.260	4.126		4.126	4.095		4.095	4.095	100
2	211	Universidade Estadual de Campinas	4.395		4.395	4.264		4.264	4.234		4.234	4.126		4.126	4.126	97.85
3	205	Missouri University of Science and Tech	4.423		4.423	4.221		4.221	4.658		4.658	4.345		4.345	4.221	91.43
4	210	Univ of Calif - Davis	4.980		4.980	4.722		4.722	5.148		5.148	5.134		5.134	4.722	61.96
5	206	Massachusetts Inst of Tech	4.728		4.728	5.208		5.208	4.788		4.788	4.803		4.803	4.728	61.63
	203	Polytechnique Montréal			DNA			DNA			DNA			DNA	DNA	
	204	McGill Univ			DNA			DNA			DNA			DNA	DNA	
	207	San Jose State University			DNA			DNA			DNA			DNA	DNA	
	208	California Polytechnic State Univ-SLO			DNA			DNA			DNA			DNA	DNA	
	212	Colorado State University			DNA			DNA			DNA			DNA	DNA	
	213	San Diego State Univ			DNA			DNA			DNA			DNA	DNA	
	214	Purdue Univ - W Lafayette			DNA			DNA			DNA			DNA	DNA	
	215	California Institute of Technology			DNA			DNA			DNA			DNA	DNA	
	217	Univ of Kansas - Lawrence			DNA			DNA			DNA			DNA	DNA	
	219	Univ of Illinois - Urbana Champaign			DNA			DNA			DNA			DNA	DNA	
	220	Virginia Tech			DNA			DNA			DNA			DNA	DNA	
	221	Univ of Wisconsin - Madison			DNA			DNA			DNA			DNA	DNA	
	222	Georgia Institute of Technology			DNA			DNA			DNA			DNA	DNA	
	224	Univ of Texas - Austin			DNA			DNA			DNA			DNA	DNA	
	225	Univ of Utah			DNA			DNA			DNA			DNA	DNA	
	226	Université Laval			DNA			DNA			DNA			DNA	DNA	
	227	Univ of Waterloo			DNA			DNA			DNA			DNA	DNA	
	228	Pakistan Navy Engineering College			DNA			DNA			DNA			DNA	DNA	
	229	Univ of British Columbia			DNA			DNA			DNA			DNA	DNA	
	231	Univ of North Carolina - Asheville			DNA			DNA			DNA			DNA	DNA	
	233	Univ of Michigan - Dearborn			DNA			DNA			DNA			DNA	DNA	
	234	Universidad Nacional Autónoma de México			DNA			DNA			DNA			DNA	DNA	
	237	Univ of Washington			DNA			DNA			DNA			DNA	DNA	
	238	Olin College of Engineering			DNA			DNA			DNA			DNA	DNA	

Skidpad Event Results

Electric 2017

Minimum Time (seconds) 5.465
 Maximum Time (seconds) 6.832 125%
 Cone Penalty (seconds) 0.25

Place	Car Num	Team	Driver 1 Run 1				Driver 1 Run 2				Driver 2 Run 1				Driver 2 Run 2				Best Time	Score
			Time R	Time L	Cones	AdjTime	Time R	Time L	Cones	AdjTime	Time R	Time L	Cones	AdjTime	Time R	Time L	Cones	AdjTime		
1	211	Universidade Estadual de Campinas	5.470	5.687		5.578	5.463	5.467		5.465				DNA				DNA	5.465	75
2	202	Univ of Pennsylvania	5.573	5.690		5.631	5.453	5.583		5.518				DNA				DNA	5.518	71.21
3	206	Massachusetts Inst of Tech	5.910	6.017		5.963	5.467	5.577		5.522				DNA				DNA	5.522	70.92
4	205	Missouri University of Science and Tech	6.017	6.117		6.067	5.690	5.807		5.748				DNA				DNA	5.748	55.93
5	210	Univ of Calif - Davis	6.450	7.330	2	7.140	5.907	5.910		5.908	6.453	7.110		6.781	6.347	6.460		6.403	5.908	46.34
	203	Polytechnique Montréal				DNA				DNA				DNA				DNA	DNA	
	204	McGill Univ				DNA				DNA				DNA				DNA	DNA	
	207	San Jose State University				DNA				DNA				DNA				DNA	DNA	
	208	California Polytechnic State Univ-SLO				DNA				DNA				DNA				DNA	DNA	
	212	Colorado State University				DNA				DNA				DNA				DNA	DNA	
	213	San Diego State Univ				DNA				DNA				DNA				DNA	DNA	
	214	Purdue Univ - W Lafayette				DNA				DNA				DNA				DNA	DNA	
	215	California Institute of Technology				DNA				DNA				DNA				DNA	DNA	
	217	Univ of Kansas - Lawrence				DNA				DNA				DNA				DNA	DNA	
	219	Univ of Illinois - Urbana Champaign				DNA				DNA				DNA				DNA	DNA	
	220	Virginia Tech				DNA				DNA				DNA				DNA	DNA	
	221	Univ of Wisconsin - Madison				DNA				DNA				DNA				DNA	DNA	
	222	Georgia Institute of Technology				DNA				DNA				DNA				DNA	DNA	
	224	Univ of Texas - Austin				DNA				DNA				DNA				DNA	DNA	
	225	Univ of Utah				DNA				DNA				DNA				DNA	DNA	
	226	Université Laval				DNA				DNA				DNA				DNA	DNA	
	227	Univ of Waterloo				DNA				DNA				DNA				DNA	DNA	
	228	Pakistan Navy Engineering College				DNA				DNA				DNA				DNA	DNA	
	229	Univ of British Columbia				DNA				DNA				DNA				DNA	DNA	
	231	Univ of North Carolina - Asheville				DNA				DNA				DNA				DNA	DNA	
	233	Univ of Michigan - Dearborn				DNA				DNA				DNA				DNA	DNA	
	234	Universidad Nacional Autónoma de México				DNA				DNA				DNA				DNA	DNA	
	237	Univ of Washington				DNA				DNA				DNA				DNA	DNA	
	238	Olin College of Engineering				DNA				DNA				DNA				DNA	DNA	

Autocross Event Results

Electric 2017

Minimum Time (seconds) 56.927
Maximum Time (seconds) 82.545 145%

Cone Penalty (seconds) 2
Off Course Penalty (seconds) 20

Place	Car Num	Team	Run #1				Run #2				Run #3				Run #4				Best Time	Score
			Time	Cones	Off Course	AdjTime	Time	Cones	Off Course	AdjTime	Time	Cones	Off Course	AdjTime	Time	Cones	Off Course	AdjTime		
1	202	Univ of Pennsylvania	63.537			63.537	59.728			59.728	59.820	1		61.820	56.927			56.927	56.927	125
2	211	Universidade Estadual de Campinas	63.774			63.774	61.049			61.049	58.911			58.911	57.274			57.274	57.274	122.69
3	206	Massachusetts Inst of Tech	59.702			59.702	57.567			57.567	65.837			65.837	61.598			61.598	57.567	120.76
4	205	Missouri University of Science and Tech	67.388			67.388	62.400			62.400	59.873			59.873	58.950			58.950	58.950	111.9
5	220	Virginia Tech	75.350	2		79.350	67.846	1		69.846				DNA				DNA	69.846	54.38
6	210	Univ of Calif - Davis	82.873		1	102.873	68.788	1		70.788	67.218	2		71.218		2		DNA	70.788	50.24
7	219	Univ of Illinois - Urbana Champaign	86.029			86.029				DNA				DNA				DNA	86.029	6.5
	203	Polytechnique Montréal				DNA				DNA				DNA				DNA	DNA	
	204	McGill Univ				DNA				DNA				DNA				DNA	DNA	
	207	San Jose State University				DNA				DNA				DNA				DNA	DNA	
	208	California Polytechnic State Univ-SLO				DNA				DNA				DNA				DNA	DNA	
	212	Colorado State University				DNA				DNA				DNA				DNA	DNA	
	213	San Diego State Univ				DNA				DNA				DNA				DNA	DNA	
	214	Purdue Univ - W Lafayette				DNA				DNA				DNA				DNA	DNA	
	215	California Institute of Technology				DNA				DNA				DNA				DNA	DNA	
	217	Univ of Kansas - Lawrence				DNA				DNA				DNA				DNA	DNA	
	221	Univ of Wisconsin - Madison				DNA				DNA				DNA				DNA	DNA	
	222	Georgia Institute of Technology				DNA				DNA				DNA				DNA	DNA	
	224	Univ of Texas - Austin				DNA				DNA				DNA				DNA	DNA	
	225	Univ of Utah				DNA				DNA				DNA				DNA	DNA	
	226	Université Laval				DNA				DNA				DNA				DNA	DNA	
	227	Univ of Waterloo				DNA				DNA				DNA				DNA	DNA	
	228	Pakistan Navy Engineering College				DNA				DNA				DNA				DNA	DNA	
	229	Univ of British Columbia				DNA				DNA				DNA				DNA	DNA	
	231	Univ of North Carolina - Asheville				DNA				DNA				DNA				DNA	DNA	
	233	Univ of Michigan - Dearborn				DNA				DNA				DNA				DNA	DNA	
	234	Universidad Nacional Autónoma de México				DNA				DNA				DNA				DNA	DNA	
	237	Univ of Washington				DNA				DNA				DNA				DNA	DNA	
	238	Olin College of Engineering				DNA				DNA				DNA				DNA	DNA	

Endurance Event Results

Electric 2017

Minimum Time (seconds) 1490.355
Maximum Time (seconds) 2161.015 145%

2 20 sec

Place	Car Num	Team	Time	Laps	Cones	Off Course	Other Penalty	Adjusted Time	Endurance Score
1	202	Univ of Pennsylvania	1490.355	16				1490.355	275
2	206	Massachusetts Inst of Tech	1507.560	16				1507.560	265.8
3	237	Univ of Washington	1533.580	16				1533.580	252.3
4	219	Univ of Illinois - Urbana Champaign	2199.416	16				2199.416	25
	210	Univ of Calif - Davis	1110.990	11		1		DNF	11
	205	Missouri University of Science and Tech	1130.012	11				DNF	11
	211	Universidade Estadual de Campinas	993.898	10				DNF	10
	238	Olin College of Engineering	598.956	5		1		DNF	5
	220	Virginia Tech	397.790	4				DNF	4

Electric 2017

Fuel Efficiency Results

Minimum: 93.147 sec 0.1109 kg 0.093 T exp: 1
Maximum: 135.063 sec 0.8259 kg 0.907 E exp: 1
145% = 13.213 / 16

Place	Car Num	Team	Average Adjusted Laptime	Laps Completed	Fuel Used (units)	Adjusted Energy (kg)	Average Adjusted Energy per Lap	Fuel Type	Fuel Efficiency Factor	Fuel Efficiency Score
1	205	Missouri University of Science and Tech	102.728	11	1.877	1.220	0.1109	EV	0.907	100
2	237	Univ of Washington	95.849	16	3.464	2.251	0.1407	EV	0.766	97.9
3	210	Univ of Calif - Davis	102.817	11	2.701	1.755	0.1595	EV	0.630	95.0
4	202	Univ of Pennsylvania	93.147	16	4.595	2.986	0.1866	EV	0.594	94.0
5	211	Universidade Estadual de Campinas	99.390	10	2.933	1.906	0.1906	EV	0.545	92.4
6	206	Massachusetts Inst of Tech	94.223	16	5.992	3.894	0.2434	EV	0.451	88.4
	219	Univ of Illinois - Urbana Champaign	137.464	16	1.942	1.262	0.0789	EV		0

Formula SAE Electric 2017 Endurance Event Laptimes

School	Car	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Univ of Pennsylvania	202	101.992	100.294	93.710	101.175	103.543	90.444	91.772	101.929		85.922	89.920	91.433	91.884	86.709	85.445	85.574	88.609
Missouri University of Science and Tech	205	109.414	103.770	104.279	104.647	105.439	103.648	104.708	105.867		104.070	91.405	92.765					
Massachusetts Inst of Tech	206	90.957	84.885	84.578	95.176	89.408	84.573	96.905	90.771		99.406	95.649	97.819	91.646	98.301	98.287	106.637	102.562
Univ of Calif - Davis	210	108.643	98.670	96.000	94.387	101.480	105.082	98.808	100.288		104.782	106.056	96.794					
Universidade Estadual de Campinas	211	116.358	106.120	102.033	98.109	97.902	97.069	94.444	96.067		94.881	90.915						
Univ of Illinois - Urbana Champaign	219	144.352	129.183	128.392	131.160	127.959	124.465	123.966	122.667		175.194	157.977	141.879	145.656	136.870	137.975	136.123	135.598
Virginia Tech	220	102.638	99.747	97.452	97.953													
Univ of Washington	237	103.007	97.626	98.221	102.914	102.912	99.185	99.551	100.535		90.847	92.527	87.845	88.649	90.148	88.857	97.195	93.561
Olin College of Engineering	238	123.764	112.665	120.848	118.723	122.956												

Times eliminated for Driver Changes or black flags

Individual laptimes are provided for information purposes only.

Laptimes are taken from the either the Formula SAE Endurance timing system or manual timing logs.

These individual laptimes have not been corrected for cone or off course penalties, and may or may not include time spent in black flag, if applicable.

The individual laptimes are not critical, the Formula SAE Endurance event is scored based on the time to complete all specified laps of the Endurance event, plus penalties and applicable black flag time

Electric 2017

Team Information

Car Num	Team	Country	Weight (kg)	Weight (lbs)
202	Univ of Pennsylvania	USA	185	407
203	Polytechnique Montréal	CAN		
204	McGill Univ	CAN	188	415
205	Missouri University of Science and Tech	USA	212	468
206	Massachusetts Inst of Tech	USA	230	507
207	San Jose State University	USA	234	516
208	California Polytechnic State Univ-SLO	USA	220	485
210	Univ of Calif - Davis	USA	220	486
211	Universidade Estadual de Campinas	BRA	197	435
212	Colorado State University	USA		
213	San Diego State Univ	USA	307	676
214	Purdue Univ - W Lafayette	USA		
215	California Institute of Technology	USA		
217	Univ of Kansas - Lawrence	USA	257	567
219	Univ of Illinois - Urbana Champaign	USA	256	564
220	Virginia Tech	USA	200	442
221	Univ of Wisconsin - Madison	USA	230	506
222	Georgia Institute of Technology	USA		
224	Univ of Texas - Austin	USA	191	420
225	Univ of Utah	USA	194	427
226	Université Laval	CAN		
227	Univ of Waterloo	CAN	264	581
228	Pakistan Navy Engineering College	PAK		
229	Univ of British Columbia	CAN		
231	Univ of North Carolina - Asheville	USA	290	639
233	Univ of Michigan - Dearborn	USA	208	459
234	Universidad Nacional Autónoma de México	MEX		
237	Univ of Washington	USA	182	402
238	Olin College of Engineering	USA	255	562