

Car No  
University  
Team Name



*Cover photo - Car Photo*  
*Insert>Picture*

*Formula Student 2018: 11-15 July 2018*



€ 0.00

System	Assembly	Part	M/B	P/M/F/T	Comments	Qt	Cost (per piece)	Cost Comments	ID
BRAKES						Total	1	€ 0.00	€ 0.00
ENGINE & DRIVETRAIN						Total	1	€ 0.00	€ 0.00
FRAME & BODY						Total	1	€ 0.00	€ 0.00
ELECTRICAL						Total	1	€ 0.00	€ 0.00
EL	HV-Battery					1			EL-A-0400
		LG HB2 18650 Cell	b			1125			EL-400-010
		Battery Box	m			1			EL-400-011
			M	Aluminum	4mm thick Al sheet	1			EL-400-011-01
			P	Plasma Cutting	Cut out the two sides from Sheet	2			EL-400-011-02
			P	Plasma Cutting	Cut out the base	1			EL-400-011-04
			P	Plasma Cutting	Cut out the back piece	1			EL-400-011-05
			P	Plasma Cutting	Cut out the inner dividers	5			EL-400-011-06
			P	Plasma Cutting	Cut out the front divider piece	1			EL-400-011-07
			P	Plasma Cutting	Cut out the front piece	1			EL-400-011-08
			P	Plasma Cutting	Cut out the top cover	1			EL-400-011-09
			P	Adjustment - Misc.	Bend Pieces to create flanges as	11			EL-400-011-010
			P	Drilled hole	Drill holes in Front Divider Piece	8			EL-400-011-027
			P	Drilled hole	Make holes for fasteners	132			EL-400-011-011
			F	Rivet		132			EL-400-011-016
			P	Riveting	Use rivets to fasten pieces	132			EL-400-011-017
			M	Rubber	Rubber Sealing Gasket	1			EL-400-011-018
			P	Cut (scissors, knife)	Cut gasket to size of exposed flange	1			EL-400-011-019
			P	Resin Application	Glue Gasket to Top cover	1			EL-400-011-020
			P	Drilled hole	Make holes in Top Cover, Front Flange	24			EL-400-011-021
			F	Bolt	For sealing top cover to box	24			EL-400-011-022
			F	Nut	For sealing Top Cover to box	24			EL-400-011-023
			P	Cut (scissors, knife)	Cut Nomex Paper to inner dimensions	1			EL-400-011-025
			P	Resin Application	Glue Nomex to the inside of the box	1			EL-400-011-026
			P	Assemble	Insert completed sections into Battery Box	5			EL-400-011-052
		Copper Busbars	m		Made from Cu101 (Electrical grade)	150			EL-400-012
			M	Copper	2mm sheet	1			EL-400-012-028
			P	Plasma Cutting	Cut into copper busbars	150			EL-400-012-029
		Parallel String	m			75			EL-400-016
			M	Electronic Component	LG HB2	15			EL-400-016-042
			M	Plastic	18650 Cell Spacers	30			EL-400-016-043
			M	Copper	Copper Busbars	2			EL-400-016-044

Battery Section	m	M	Electronic Component	Temperature Circuit	1		EL-400-016-045
		P	Assemble	Clip Cells to spacers	30		EL-400-016-046
		P	Weld	Spot Weld Copper Busbars to ce	2		EL-400-016-047
		P	Resin Application	Glue temprature sensors from	1		EL-400-016-048
		P	Fastener Install (every)	Screw in PCB to end of cell spac	2		EL-400-016-049
				aka Brick	5		EL-400-017
		M	Electronic Component	Parallel String	15		EL-400-017-050
		M	Electronic Component	Section PCB	1		EL-400-017-051
		P	Assemble	Join 15 Parallel strings to form a	15		EL-400-017-053
		P	Wire Dressing (Install an	Install wires to connect Temp PC	15		EL-400-017-054
		P	Weld	Connect busbars (from parallel s	15		EL-400-017-055
		P	Wire Dressing (Install an	Install Voltage taps on series con	15		EL-400-017-056
		F	Crimp Terminal	M10 Uninsulated terminal	1		EL-400-017-057
		F	Nut	M10 locknut	2		EL-400-017-058
		F	Washer	M10	2		EL-400-017-059
		F	Screw	M10	1		EL-400-017-060
		M	Plastic	Anderson Powerpole PP180 Hou	1		EL-400-017-061
		M	Copper	Anderson Powerpole Contact	1		EL-400-017-062
		P	Assemble	Assemble Maintainance plug	1		EL-400-017-063
		P	Fastener Install (every)	Screw maintainance plugs into b	1		EL-400-017-064
Battery Charger	b			Emotorwerks 40A/10kWh	1	€ 580.00	EL-400-018
000AWG wire	b				1		EL-400-019
Shutdown Switches	b			XB4 Pushbutton switch	3		EL-400-020
XB4 Collar	b				3		EL-400-021
XB4 Legend Plate	b				3		EL-400-022
Main Fuse	b			Littelfuse Class L, LDC series 60	1		EL-400-023
Accumulator Insulatc	b			TE Kilovac EV200	2		EL-400-024
Insulation Monitoring	b			Bender Isometer IR155-3204	1		EL-400-025
Inertia Switch	b			Pegasus Racing Inertia Switch	1		EL-400-026
High Voltage Discon	b			Anderson SBX Series 2 Way Mal	1		EL-400-027
HVD handle	b			Frame Handle, For Use With SB	1		EL-400-028
Master Switches	b			0-605-21 75A Rated at 24V Batte	2		EL-400-029
Tractive System Meç	b			Cinch Connectors Red Banana J	1		EL-400-030

EL	Battery Management System			BMS	1		EL-A-0404
	Section PCB	m			5		EL-404-014
		M	Electronic Component	BQ76940, Batter Monitor and Prc	1		EL-404-014-034
		M	Electronic Component	BQ78350-r1m CEDV Li-ion Gua	1		EL-404-014-035
		M	Electronic Component	FET Driver, BQ76200	1		EL-404-014-036
		M	Electronic Component	Blank PCB	1		EL-404-014-037
		M	Electronic Component	Capacitor, 0.22 microfarads, 060	19		EL-404-014-073
		M	Electronic Component	Capacitor, 1.5 microfarads, 0805	1		EL-404-014-074
		M	Electronic Component	Capacitor, 0.1 microfarads, 0603	4		EL-404-014-075
		M	Electronic Component	Capacitor, 470picofarads, 0603	2		EL-404-014-076

	Temperature Acquisition	M	Electronic Component	Capacitor, 0.1 microfarads, 0603	5	EL-404-014-077
		M	Electronic Component	Capacitor, 10 microfarad, 1210	3	EL-404-014-078
		M	Electronic Component	MOSFET, N/P-CH, 12V, 2.1A	15	EL-404-014-079
		M	Electronic Component	Diode, Ultrafast, 100V, SOD-123	5	EL-404-014-080
		M	Electronic Component	Resistor, 100 Ohm, 0805	2	EL-404-014-081
		M	Electronic Component	Resistor, 100 kiloohm, 0805	3	EL-404-014-082
		M	Electronic Component	Resistor, 300kiloOhm, 0603	4	EL-404-014-083
		P	Assemble	Solder Electronic Components to	1	EL-404-014-084
					75	EL-404-015
		M	Electronic Component	Blank PCB	1	EL-404-015-038
		M	Electronic Component	Resistor, 20 Ohm	1	EL-404-015-039
		M	Electronic Component	Capacitor, 10 Microfarad	1	EL-404-015-040
		M	Electronic Component	Inductor, 10 MicroHenry	1	EL-404-015-041
		M	Electronic Component	Resistor, 385 KiloOhms	1	EL-404-015-065
		M	Electronic Component	Resistor, 125 KiloOhms	1	EL-404-015-066
		M	Plastic	Header, Female, 1row 3 pin	8	EL-404-015-067
		M	Electronic Component	SN74LV4051A, 8 Channel Analo	1	EL-404-015-068
		M	Electronic Component	LM3670 DC-DC buck converter	1	EL-404-015-069
		M	Electronic Component	LMT84, 3-Pin Thermometer, TO9	8	EL-404-015-070
		M	Plastic	Header, JXT-SH, Male, 7 pin	1	EL-404-015-071
MSP430 Ultra-Low F b		P	Assemble	Solder Electronic Components to	1	EL-404-015-072
				Main MCU	1	EL-404-031

MISCELLANEOUS, FIT, FINISH & ASSEMBLY	Total	1	€ 0.00	€ 0.00
STEERING SYSTEM	Total	1	€ 0.00	€ 0.00
SUSPENSION SYSTEM	Total	1	€ 0.00	€ 0.00
WHEELS, WHEEL BEARINGS AND TIRES	Total	1	€ 0.00	€ 0.00