



BILL OF MATERIAL			
ITEM	DESCRIPTION	MANUFACTURER'S PART NUMBER	QUANTITY
1	Arduino Uno R3 Development Board, Kit Microcontroller Card & USB Cable for Electronics & Robotics, Based on ATmega328P	ARDUINO UNO R3	1
2	Cytron PS2 Shield, PS2 Controller Converter	CYTRON, SHIELD-PS2	1
3	Victor 883 Motor Controller	VICTOR SPX, 217-9191	2
4	Electop SAE Power Socket Sidewall Port,Weatherproof SAE Quick Connect Solar Panel Mount Universal Flush-Mountable Connector, 12AWG SAE Cable with 8 Screws for Solar Generator Battery Charger	ELECTOP 84404D549325331	1
5	SIM&NAT Male DC 2.1mm x 5.5mm Wire Power Pigtails Adapter Barrel Plug Socket Cables	SIM&NAT	1
6	Nylon-Insulated X Butt Connectors, YELLOW, 12-10 Ga.	DELCity, 812205	2
7	EPAuto 12V-DC ATC/ATO 12 AWG In-Line Fuse Holder for 30A fuses	EPAuto, AE-008-1	1
8	eFuncar 3Pin 12V 30A Toggle Switch SPST ON Off, Waterproof LED BLUe Green YELlow RED Lighted Rocker Switch	eFuncar_EFC00003	1
9	WGCD B10K 10K Ohm Knurled Shaft Linear Rotary Taper Potentiometer with Cap Kit (B10K)	WGCD, B06WWQP12J	1
10	Conn Pin 22-28AWG, Crimp Tin (Conductor Connections to PS2 Shield)	SYM-001T-P0.6(N)	7
11	Mini Analog Joystick - 10k Potentiometers	ADAFRUIT, 3102	1
12	Power Distribution Bus, 7x6mm Diameter, Solid Brass	ADAFRUIT, 737	2

- Notes:
- 1.) Power 12 AWG Conductors; Control 22 AWG Conductors
 - 2.) All wires terminated to Bus should have Farrules.
 - 3.) PS2 Shield plugs into Microprocessor
 - 4.) Program mode: jump D3 & D2 to monitor.
 - 5.) Normal operations: jump D1 & D0.
 - 6.) Pins denoted with "S" are PWM supported.