

Shopping List						
Amount	Part Type	Properties				
1	lipo battery	variant variant 1; package battery-18650-kit				
1	pixy2p1camera	variant mine; form ♂ (shrouded male); row double; pins 10; pin spacing 0.1in (2.54mm); package THT				
2	Diode	variant hv; package diode-hv				
1	DC_DC_XL4016	editable pin labels false; variant variant 2; pins 4; chip label XL4016; pin spacing 300mil; package board_screw				
1	FUSE	variant x20mm; size 5x20mm; package fuse_5mm				
1	MPU-6050 Board GY-521	variant variant 1; form ♀ (female); row double; hole size 1.0mm,0.508mm; pins 8; pin spacing 0.1in (2.54mm); package THT				
4	hc-sr04	variant hc-sr04				
1	?	variant variant 1				
1	Generic shrouded header - 6 pins	form ♂ (shrouded male); row double; hole size 1.0mm,0.508mm; pins 6; pin spacing 0.1in (2.54mm); package THT				
5	Basic Servo					
1	DC motor Titan	variant variant 4				
1	BTS7960	editable pin labels false; variant BTS7960; pins 12				
1	Arduino Mega 2560 (Rev3)	type Arduino MEGA 2560 (Rev3)				
2	encoder	variant variant 1				
1	LM2596 step down module	type LM2596 step down				
1	SWITCH-SPST-2	variant tv; package switch-spst-vertical				
circuit components						
ID	Name	Designator	Footprint	Quantity	Supplier Part	Price in USD
1	0.1u	C1,C2,C3,C4,C5	CAP-TH_L7.5-W4.2	5		
2	0.47u	C6	CAP-TH_L7.0-W4.1-P5.1	1		
3	HDR-F-2.54_1x2	H1	AK500/2	1	C49661	0.035
4	HDR-M-2.54_1x5	J1	HDR-M-2.54_1X5	1	C358687	0.026
5	HDR-M-2.54_1x3	J2	HDR-M-2.54_1X3	1	C180248	0.208
6	HDR-M-2.54_2x4	J3	HDR-M-2.54_2X4	1	C58363	
7	Switch 12*12*12	KEY1	KEY-TH_4P-L12.0-W12.0-P5.00-LS13.4	1	C14121	0.045
8	LED-TH-5mm_R	LED1	LED-TH_BD5.0_RED	1	C87271	0.032
9	220ohm	R1	R_AXIAL-0.3	1		
10	33k	R2	R_AXIAL-0.3	1		
11	15k	R5	R_AXIAL-0.3	1		
12	LM7806T	U1,U2	TO-220_L10.2-W4.6-P2.54_LR7805	2	C2902508	0.247
13	7905(TO-252)	U3,U4,U5	TO-220_L10.2-W4.6-P2.54_LR7805	3	C78860	0.295