Comment	Description	Designator	Quantity	Pins	Value
BreadBoard	SYB - 170 Pins	BB1	1	0	
BreadBoard	4*5 100mil	BB2	1	0	
Battery TH 2 Holes	Battery TH 150mil distance Holes	BT1	1	2	
Capacitor 10X10mm	SMD D10mm H10mm 50V	C1	1	2	220uF
Capacitor 6.3X5.4mm	SMD Dia6.3mm, 10V	C2	1	2	220uF
Capacitor 8X10mm	SMD Dia 8mm Height 10mm, 35V	C3	1	2	220uF
C0805	35V	C4	1	2	220pF
C0805	10V	C5, C6, C13, C15, C19	5	2	10uF
C0805	10V	C7, C12, C14, C16, C20, C22, C24	7	2	100nF
C0805	16V	C8, C9, C10, C11	4	2	22uF
C0805	10V	C17, C18	2	2	22pF
C0805	10V	C21, C23	2	2	4u7F
C0805	10V	C25, C26	2	2	33nF
SS34	Schottky Diode	D1, D2, D4	3	2	3A
SS14	Schottky Diode	D3, D5, D6	3	2	1A
1N4148	Switching Diode LL34	D7, D8, D9, D10, D11, D12	6	2	
Ferrite Bead	Ferrite Bead 0805	FB1, FB2	2	2	150R
SN754410NE	Push-Pull Four Channel Driver With Diode	IC1	1	16	
MCP4725A1T-E/CH	12-Bit Digital-to-Analog Converter with EEPROM M	IC2	1	6	
74LVC245	OCTAL BUS TRANSCEIVER WITH 3-STATE OUTPUTS	IC3	1	20	
ADE7912ARIZ	ADC with Isolated Power	IC4	1	20	
PCF8563	RTC	IC5	1	8	
DC Power Jack 2_1mm PTH	DC Power Jack 2.1mm PTH	J1	1	2	
Power	Header 2H	J2	1	2	
VSS	Header 2H	J3	1	2	
VVR	Header 2H	J4	1	2	
V5	Header 2H	J5	1	2	
3V3	Header 2H	J6	1	2	
Motor	Header 2X2H	J7	1	4	
Servo	Header 3X2H	J8	1	6	
Motor Driver	Header 5X2H	J9	1	10	
Timer	Header 2H	J10	1	2	
DAC	Header 2H	J11	1	2	
IO3V3	Header 2H	J12	1	2	
Graph	Header 3H	J13	1	3	
MICROSD	Micro SD, SPI comm	J14	1	9	
Banana Jack	4mm	J15	1	1	
Banana Jack	4mm	J16	1	1	
Banana Jack	4mm	J17	1	1	
LCD	Socket 6 2mm	J19	1	6	
LCD Support	Socket 4 2mm	J20	1	4	
LCD	Header 6 2mm	J21	1	6	
LCD Support	Header 4 2mm	J22	1	4	
Motor Source Jumper	3Pin 2.54mm	JP1	1	3	
I V	3Pin 2.54mm	JP2	1	3	
Power Inductor	L38 12X12X7mm 3A	L1, L2	2	2	47uH
Power Inductor	L38 CDRH74R 7X7X4mm 1A	L3	1	2	4u7H
TFT 128X160px	TFT128X160px SPI communication	LCD1	1	14	
LED 3mm	3mm	LED1, LED2, LED4	3	2	
LED 3mm Bi Clr 3Pin Comm Anode	Common Anode	LED3	1	3	

LED 3mm Bi Clr 3Pin Common Cathod	Common Cathod	LED5, LED6	2	3	
Piezo Buzzer	Piezo Buzzer 12mm Dia	LS1	1	2	
Drill 2mm	Hole 2.1mm	MP1, MP2, MP3, MP4, MP5	5	0	
Arduino Mega 2560 R3		PCB1	1	92	
ESP8266 ESP-12-E	ESP-12-E Two Female Sockets 8 Ptich: 2mm	PCB2	1	16	
XBEE	XBee Two Female Sockets 10 Ptich: 2mm	PCB3	1	20	
HC05	Socket 6	PCB4	1	6	
FDS6675BZ PFET	SOIC-8	Q1	1	3	
R0805		R1, R36	2	2	15k
R0805		R3	1	2	3K9
R0805		R4	1	2	470 1%
R0805		R5	1	2	51k 1%
R0805		R6	1	2	10k 1%
R0805		R7	1	2	0.3
R0805		R8, R12, R13, R14, R15, R16, R33	7	2	2k2
R0805		R9, R10, R11	3	2	2k7
R0805		R17, R18, R19, R20, R21, R22, R23, R24, R30, R37, R38, R41, R42, R43	14	2	10k
R0805		R25	1	2	180k 1%
R0805		R26, R29	2	2	1k 1%
R1206	Shunt Resistor, R010, 10milliohm	R27	1	2	0.01 1%
R0805		R28	1	2	68k 1%
R0805		R31	1	2	22R
R0805		R32	1	2	10R
R0805		R34, R39	2	2	6k8
R0805		R35	1	2	39k
R0805		R40	1	2	1k
R0612	Network Resistor 0603 X 4	R44	1	8	10k
PTC 2A RST FUSE	Resettable Fuse	RT1	1	2	2A
Slide Switch SP3T 3Pos	3 Position PCB RT Mount	S1	1	3	
Tactile Switch 4Pin (2Pin NC)	Tactile Switch 13mm 6X6mm	S2	1	2	
Tactile Switch 4Pin (2Pin NC)	12mm With Cap	S3, S4	2	2	
Slide Switch SP3T 3Pos	3 Position PCB Mount	S5, S6	2	3	
5 Way Tactile	7X7X5mm SMT	S7	1	6	
LM2596 5V	Power Converter 150 KHz 3A Step-Down Voltage R	U1	1	6	
LM2596 ADJ	Power Converter 150 KHz 3A Step-Down Voltage R	U2	1	6	
1117	SOT223	U3	1	4	
TP5410	TP5410 SOP8-PP Charge+Boost IC Li Cell	U4	1	8	
RPot	Thumbwheel/Gear Potentiometer	VR1	1	3	10K
RPot	RV09 12.5mm Potentiometer	VR2, VR3	2	3	10k
4.096MHz	Crystal, 18.432MHZ, HC49-SMT	X1	1	2	4.096
32.768 kHz	Crystal, 32.768 kHz, DT-38	X2	1	2	32.768 kHz
Zener Diode	IN4752	Z1	1	2	33V
Zener Diode	IN4738	Z2	1	2	12V