Bill of Materials: smellBot_Schematics.fzz

C:/Users/yiann/OneDrive - Elmhurst College/Elmhurst/Gopal Research/Schematics/smellBot_Schematics.fzz

Tuesday, January 26 2021, 21:05:31

Assembly List

Label	Part Type	Properties
J4	Generic female header - 2 pins	package THT; hole size 0.7mm,0.508mm; row single; form ♀ (female); pins 2; pin spacing 0.15in (3.81mm)
J5	Generic female header - 1 pins	package THT; hole size 0.7mm,0.508mm; row single; form ♀ (female); pins 1; pin spacing 0.1in (2.54mm)
J6	Generic female header - 2 pins	package THT; hole size 0.7mm,0.508mm; row single; form ♀ (female); pins 2; pin spacing 0.15in (3.81mm)
J7	Generic female header - 2 pins	package THT; hole size 0.7mm,0.508mm; row single; form ♀ (female); pins 2; pin spacing 0.15in (3.81mm)
J8	Generic female header - 2 pins	package THT; hole size 0.7mm,0.508mm; row single; form ♀ (female); pins 2; pin spacing 0.15in (3.81mm)
J9	Generic female header - 1 pins	package THT; hole size 0.7mm,0.508mm; row single; form ♀ (female); pins 1; pin spacing 0.1in (2.54mm)
M1	DC Motor	
M2	DC Motor	
M3	DC Motor	
M4	DC Motor	
Part1	Arduino Uno (Rev3)	type Arduino UNO (Rev3)
Part2	HC-05	package breakout board; protocol Bluetooth; variant variant 1; pins 6; part # HC-05
R1	450 Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 450Ω; pin spacing 400 mil
R2	450 Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 450Ω; pin spacing 400 mil
S1	H-Bridge with L298N	switching circuit SPST; default state Normally Open; variant variant 1
S2	H-Bridge with L298N	switching circuit SPST; default state Normally Open; variant variant 1
S4	SPST Switch	package switch-spdt_lock.007s; variant pth_lock
VCC	Voltage Regulator - 5V	package TO220 [THT]; voltage 5V
VCC1	Voltage Regulator - 5V	package TO220 [THT]; voltage 5V

Label	Part Type	Properties
VCC2	Battery	voltage 3V

Shopping List

Amount	Part Type	Properties
4	Generic female header - 2 pins	package THT; hole size 0.7mm,0.508mm; row single; form ♀ (female); pins 2; pin spacing 0.15in (3.81mm)
2	Generic female header - 1 pins	package THT; hole size 0.7mm,0.508mm; row single; form ♀ (female); pins 1; pin spacing 0.1in (2.54mm)
4	DC Motor	
1	Arduino Uno (Rev3)	type Arduino UNO (Rev3)
1	HC-05	package breakout board; protocol Bluetooth; variant variant 1; pins 6; part # HC-05
2	450 Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 450Ω; pin spacing 400 mil
2	H-Bridge with L298N	switching circuit SPST; default state Normally Open; variant variant 1
1	SPST Switch	package switch-spdt_lock.007s; variant pth_lock
2	Voltage Regulator - 5V	package TO220 [THT]; voltage 5V
1	Battery	voltage 3V

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