ControllerSchematicBOM

	Where can they be obtained?	Role in Project			Device	Package	Description
0	Already have one lying around	Expanding inputs to the arduino	IC1	4021N	4021N	DIL16	8-bit static SHIFT REGISTER
\$12.00	Amazon (\$11-12 for 5 pcs)	Providing haptic feedback	M1	MOTOR10MM	MOTOR10MM	VIBE-MOTOR-10MM	Motor (Single-Phase)
0	Already have these	Pull-down resistor for button	R1	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have these	Pull-down resistor for button	R2	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have these	Pull-down resistor for button			R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have these	Pull-down resistor for button	R4	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have these	Pull-down resistor for button	R5	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have these	Pull-down resistor for button	R6	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
	Already have these	Pull-down resistor for button		4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have these	Pull-down resistor for button	R8	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
	Already have these	Pull-down resistor for button	R9	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have these	Pull-down resistor for button	R10	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have these	Pull-down resistor for button	R11	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
	Already have these	Pull-down resistor for button		4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have potentiometers as well	Potentiomemter for trigger	R13		1623760-2	POT_1623757-2	
0	Already have potentiometers as well	Potentiomemter for trigger	R14		1623760-2	POT_1623757-2	
0	Already have these	Pull-down resistor for button	R15	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
0	Already have these	Pull-down resistor for button	R16	4.7k	R_AXIAL-7.2MM-PITCH	RESAD724W46L381D178B	Resistor Fixed - Generic
\$0.40	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Face button	S1	B3U-3000P(M)-B	B3U-X000B3U3000P(M)-B3000P(M)-B	B3U-3000P(M)-B	Ultra-small Tactile Switch
\$0.40	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Face button		B3U-3000P(M)-B	B3U-X000B3U3000P(M)-B3000P(M)-B	B3U-3000P(M)-B	Ultra-small Tactile Switch
\$0.40	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Face button	S3	B3U-3000P(M)-B	B3U-X000B3U3000P(M)-B3000P(M)-B	B3U-3000P(M)-B	Ultra-small Tactile Switch
\$0.40	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Face button	S4	B3U-3000P(M)-B	B3U-X000B3U3000P(M)-B3000P(M)-B	B3U-3000P(M)-B	Ultra-small Tactile Switch
\$0.40	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Direction on the hat	S5	B3U-3000P(M)-B	B3U-X000B3U3000P(M)-B3000P(M)-B	B3U-3000P(M)-B	Ultra-small Tactile Switch
\$0.40	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Direction on the hat	S6	B3U-3000P(M)-B	B3U-X000B3U3000P(M)-B3000P(M)-B	B3U-3000P(M)-B	Ultra-small Tactile Switch
\$0.40	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Direction on the hat	S7	B3U-3000P(M)-B	B3U-X000B3U3000P(M)-B3000P(M)-B	B3U-3000P(M)-B	Ultra-small Tactile Switch
\$0.40	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Direction on the hat		B3U-3000P(M)-B	B3U-X000B3U3000P(M)-B3000P(M)-B	B3U-3000P(M)-B	Ultra-small Tactile Switch
0	Already have these	Thumbstick to place on top	S9	JOYSTICK_THUM	JOYSTICK_THUMB	JOYSTICK	Analog Thumb Joystick
	Already have these	Thumbstick to modify for full-size stick			JOYSTICK_THUMB	JOYSTICK	Analog Thumb Joystick
	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Bumper			B3U-X000B3U3000P(M)-B3000P(M)-B		Ultra-small Tactile Switch
	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Bumper			B3U-X000B3U3000P(M)-B3000P(M)-B		Ultra-small Tactile Switch
	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Start			B3U-X000B3U3000P(M)-B3000P(M)-B		Ultra-small Tactile Switch
	Breadboard-friendly/Through hole: Amazon (\$8 for 20pcs)	Select			B3U-X000B3U3000P(M)-B3000P(M)-B		Ultra-small Tactile Switch
	Amazon (\$15)	Programmable microcontroller	U\$1	ARDUINOMICRO	ARDUINOMICRO	ARDUINOMICRO	
	Already have them	Connecting components together		Breadboard			
0	Already have them	Connecting components together		Jumper wires			