

Assignment 2/Assignment 3 - Haptic Glove Lite: Electronics
INFR 3380U: Industrial Design for Game Hardware
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TinkerCad Simulation: <https://www.tinkercad.com/things/ihDkLQjge7K>

Component	Quantity	Price (Individual) [CAD]	Price (Total) [CAD]	Role	Link
Flex Sensor (2.2")	5	\$14.75	\$73.75	A sensor that measures the amount of its bend. This would be used to measure the bend of the user's fingers. A 2.2" flex sensor has been selected for this project.	https://www.creatroninc.com/product/flex-sensor-2-2/
Arduino Uno R3	1	\$27.99	\$27.99	Provides power to the other components so that they can function. Also enables and disables different components.	https://www.creatroninc.com/product/arduino-uno-rev3/
Vibration Motor (Mini - 10mm)	5	\$3.59	\$17.95	Vibrates in reaction to elements in the virtual environment, simulating physical interactions for the user.	https://www.creatroninc.com/product/mini-vibration-motor-10mm/
1 kΩ Resistor (1/4W at 5%)	11	\$0.25	\$0.50	Resistor used for regulating the power being sent to a given component. The linked package comes with 10 resistors total, so two of them would need to be bought for a total of 20 resistors.	https://www.creatroninc.com/product/1-4w-5-resistor-10-pack/
Blue LED (1W)	1	\$1.50	\$1.50	A blue LED light that blinks to indicate that the hardware is on. The linked package comes with multiple LEDs, but it is cheaper than a single, higher wattage LED.	https://www.creatroninc.com/product/5mm-led-blue-10-pack/
Wire (3" (M-M) Jumper Wire)	57	\$2.50	\$15.00	Wires for connecting different components on the breadboard. These come in packs of 10, so 6 of them are being ordered for a total of 60 wires.	https://www.creatroninc.com/product/3-m-m-jumper-wire-10-pack/
Breadboard (Full Size)	1	\$7.80	\$7.80	The breadboard for connecting all the components together and providing power to them.	https://www.creatroninc.com/product/full-size-breadboard-white/
Total	81	\$58.38	\$144.49		