Assignment 2 & 3 - Fusion One-handed guitar game controller



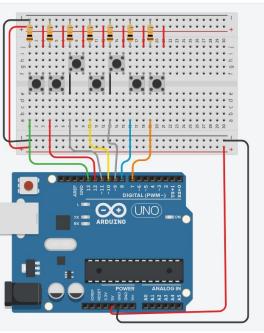
TinkerCAD

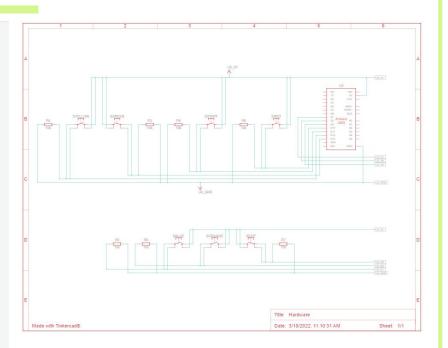
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int to serial monitor orange was pressed with

newlin

Schematics





Bill of Materials

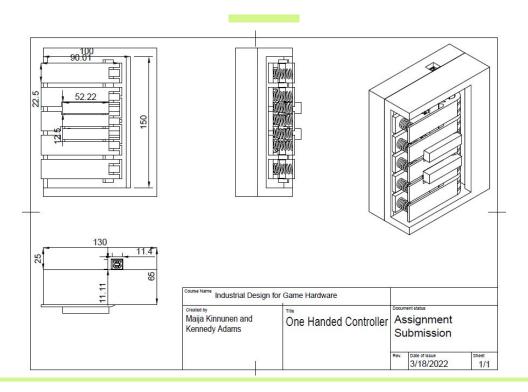
Name	Quantity	Compone	Explain	Obtain	Price Per	Total
U2	1	Arduino l	Base	https://www.amazon.ca/A	\$26.86	\$26.86
Sgreen, Sy	7	Pushbutt	Buttons to	https://www.digikey.ca/er	\$0.18	\$1.80
R3, R4, R5,	7	10 kΩ Res	To Resist	http://store-usa.arduino.o	\$1.99	\$1.99
Wires	12	Wires	To connec	https://www.amazon.ca/E	\$14.99	\$14.99
Total						\$45.64

Fusion

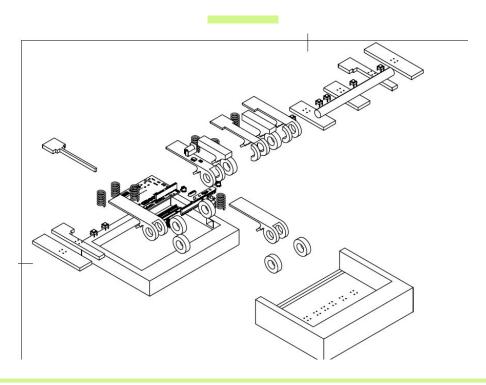
Bill of Materials

Name	Quantity	Component	Explain	Obtain	Price Per	Total
U2	1	Arduino Unc Base		https://w	\$26.86	\$26.86
Casing	1	Casing	To hold everything	3D printing		
Buttons	7	Pushbutton	Buttons to press, the col	https://w	\$0.18	\$1.80
Keys	7	Keys	To Press 3D printing			
Springs	7	Springs	Keys functionality	Pens		
Total						\$0.00

Parts



Assembly & Exploded View



Functionality

Electronics place holders to indicate how these will be secured Hot Glue

Cable management to avoid having loose cables

Hot Glue

Hinges or other approaches to enclose the components.

Hot Glue

Opening for USB cable connectivity

Buttons: we removed the d pad as we dont think it is necessary for the guitar hero. The first 2 keys are the Green and Red, A and B on a regular controller. The next 3 are the Yellow, Blue, and Orange buttons. The 2 Black keys are the start and exit buttons.

Planning

Gantt Chart



Roles and Responsibilities

Kennedy - TinkerCAD, Organization Maija - Fusion