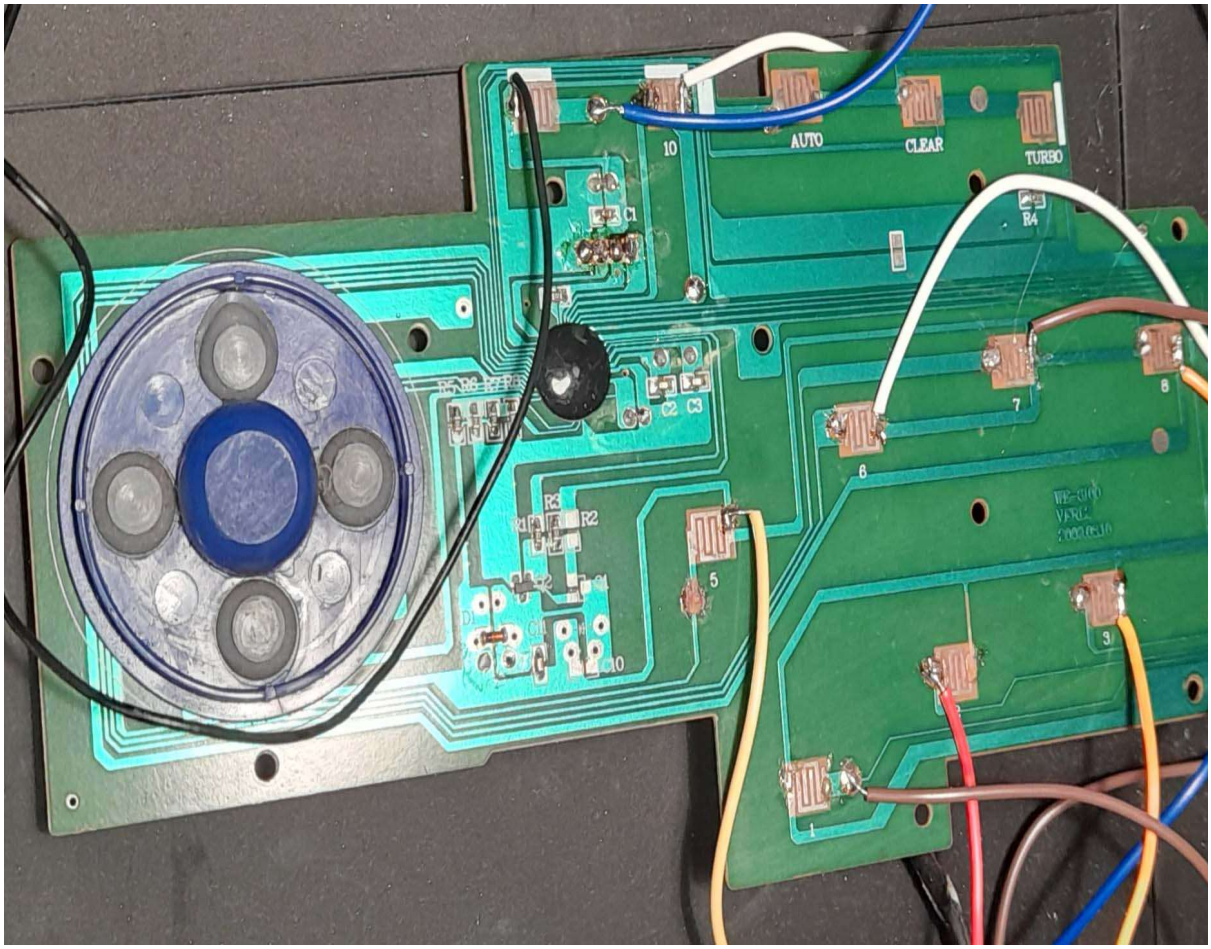
Pinsim Built by DAVEYTRON (Lee Davey)

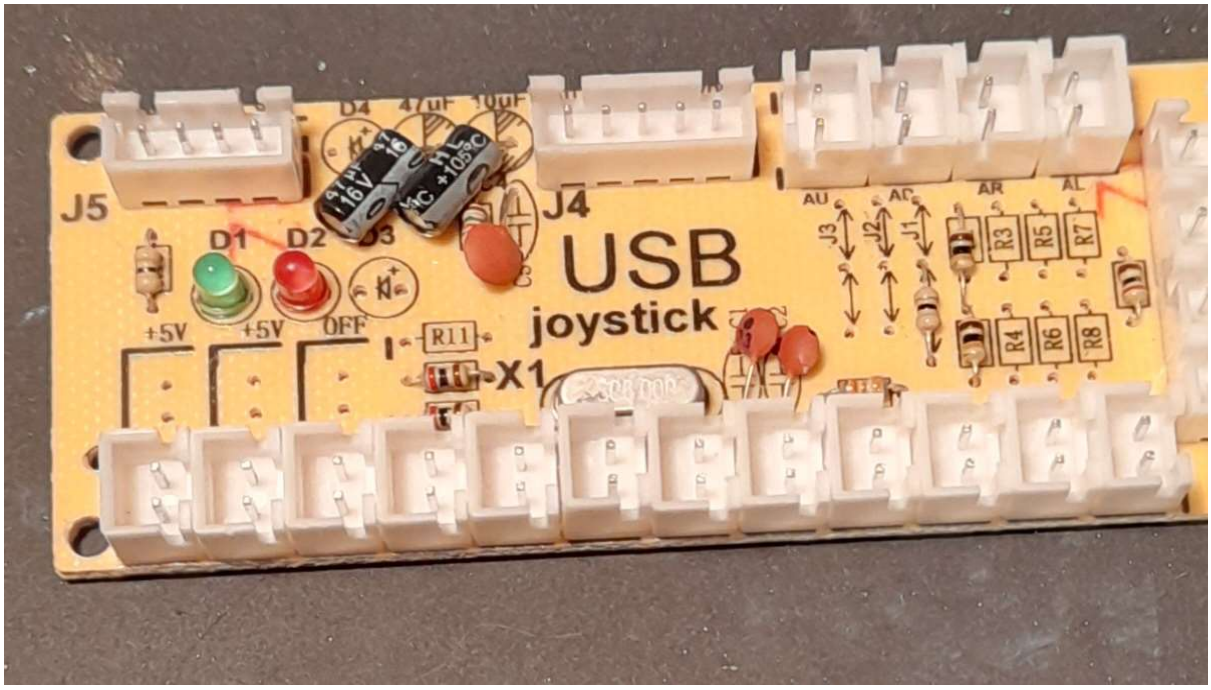
I started building My pinsim around 2 years ago after I got into vpxvr.
I had a mate of mine make the box for me. I would recommend a box the width of a pinball machine, an after thought for me.

Now for the hardware components

I initially used an old joystick controller that worked ok But I wanted a bit more bang for the buck as this was going to be something special.

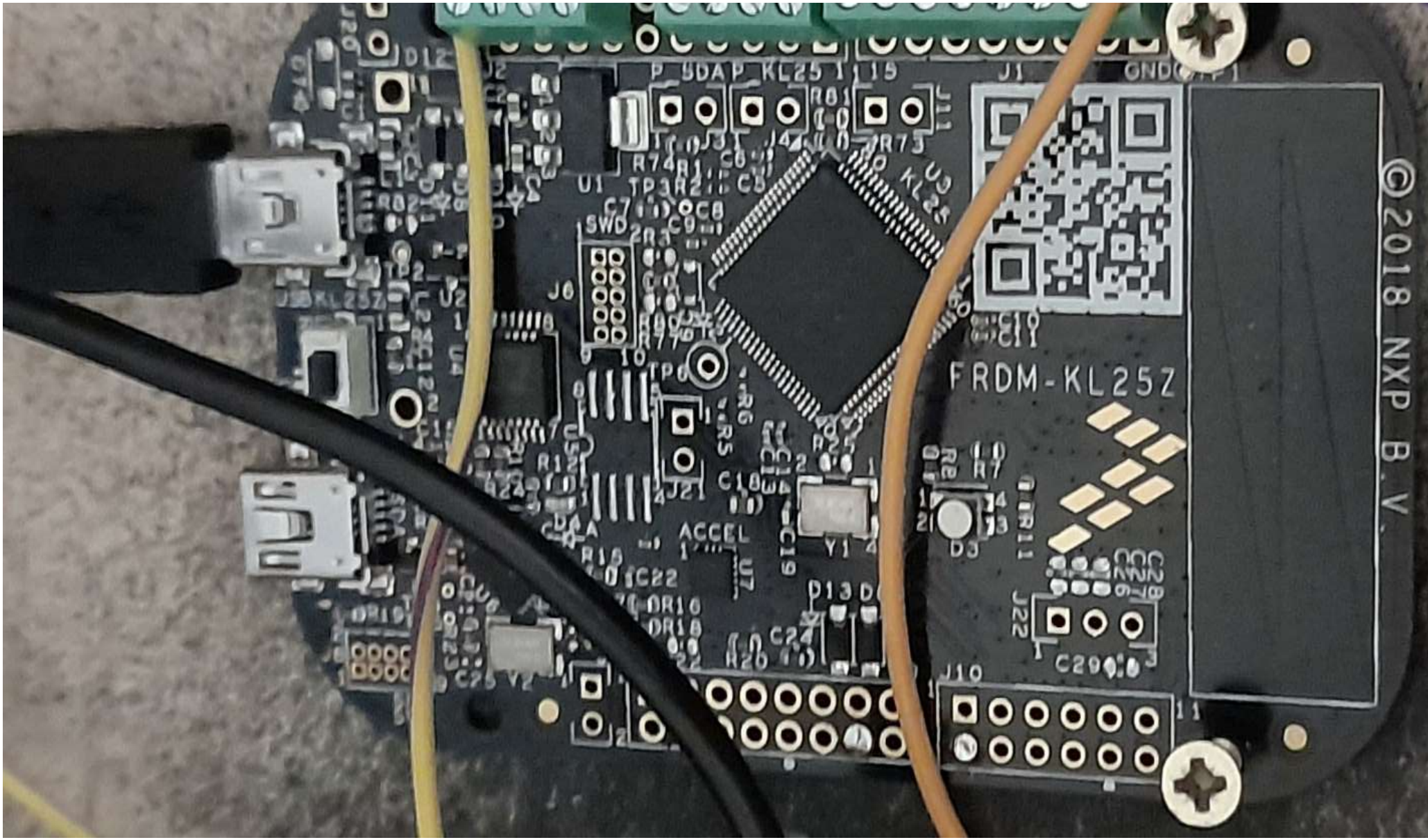


I have also used a Usb joystick controller for mame but found it to be to slow for flippers (flipper lag)



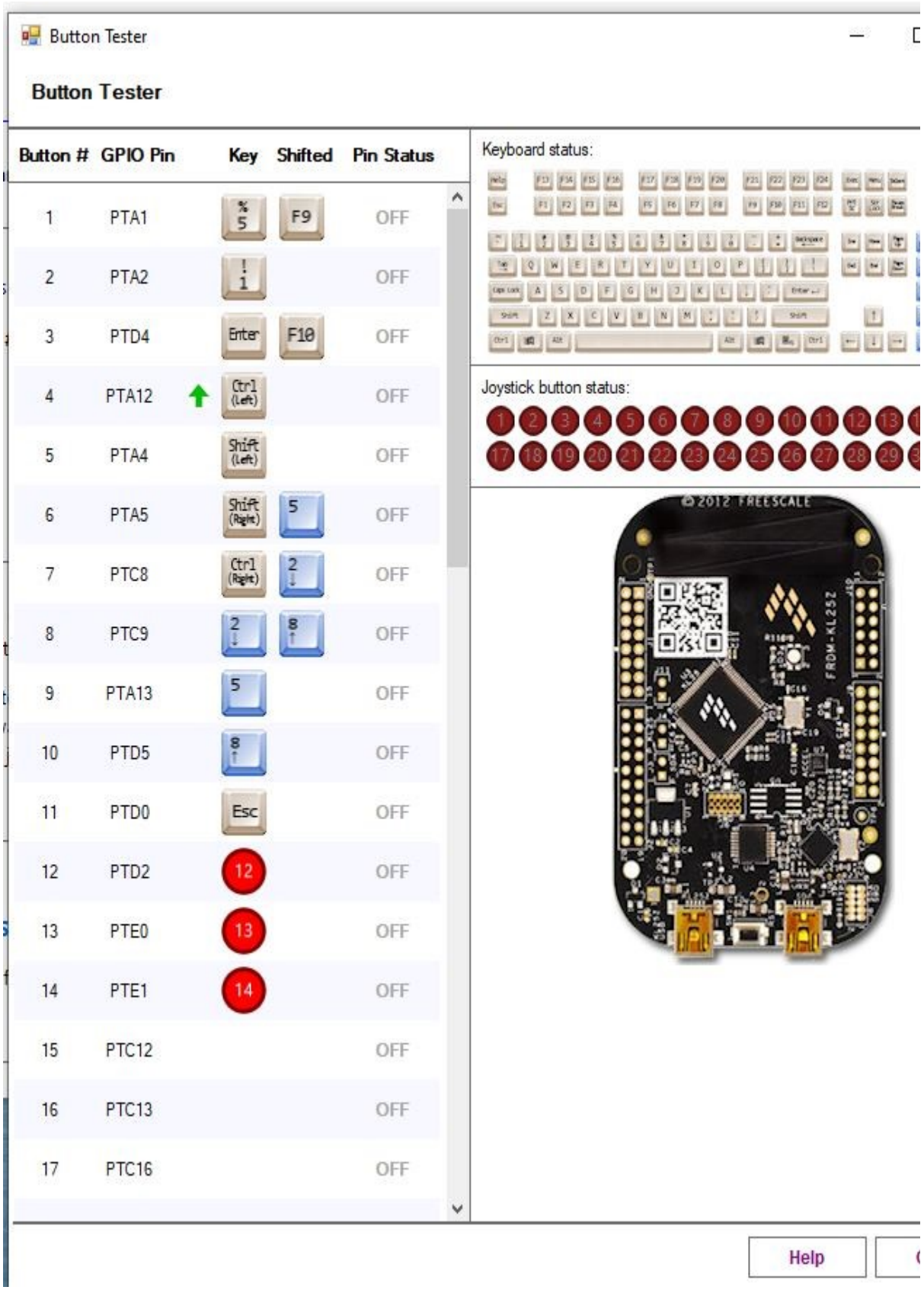
So I went for Pinscape board as it has heaps of joystick buttons and an accelerormeter.The newer NXP boards do not have the accelerometer in them. I have been advised my suppler that MJR is using a new system for his Pinscape.

You could also use a cleaveland software design Pinone


FRDM-KL25Z
©2018 NXP B.V.

The buttons are what I had laying in a draw from other projects.
The amount of buttons I used is 10.

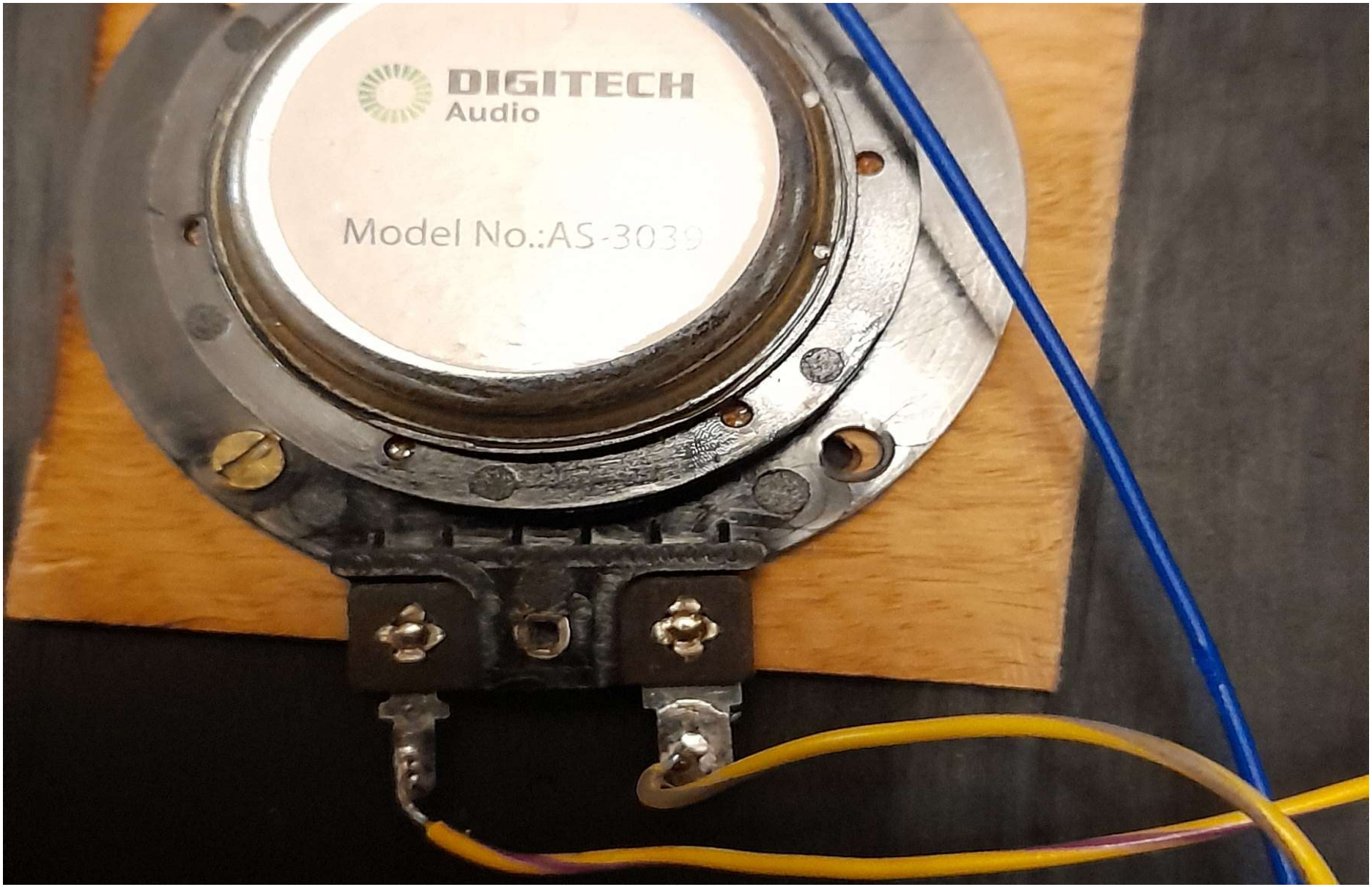
1 for coin insert VPX (key 5)
1 for start the game VPX(key 1)
2 for the flippers VPX keys (L and R shift)
2 for the magna saves VPX keys (L and R control)
1 for plunger VPX key (Enter)
These next keys are for use in VR
1 for down VPX key(number pad 2) lowers the table
1 for centre VPX key **(**number pad 5) centre the table to your view
1 for up VPX key (number pad 8) raiser the table
1 for exit VPX key(esc) exits VPX or VPX launcher Long press ,short press lets you choose another table in VPX launcher.
I have configured Pinscape to the button assignments and wired all the buttons to the Pinscape controller.



Helpful tip: Wire a ground wire from the controllers ground connection to all the switch's by daisy chaining the one off the other until you reach the last button.

I also wanted some sort of force feed back like ssf on my virtual pin.
so I had a spare leppe amp and exciter in a draw that hadn't been used and started to think about how I was going implement it.
A day later the idea came to me to use the headphone socket on my quest 2 as the sound source. I gathered up the necessary bits and pieces to assemble my creation.

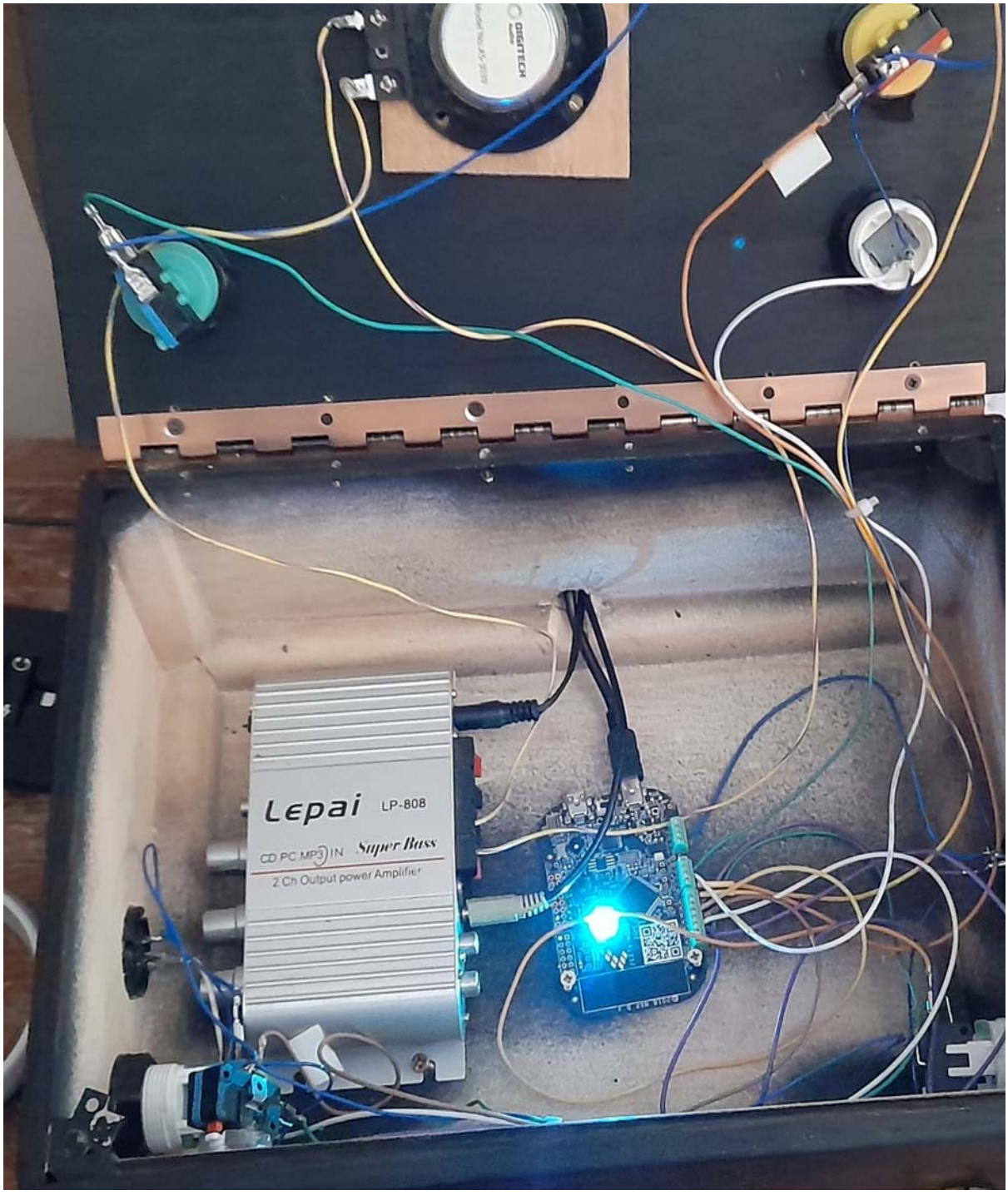

Lepai
LP-808
CD.PC.MP3 IN
Super Bass
2 Ch Output power Amplifier


DIGITECH
Audio
Model No.:AS-3039

So I *got all the necessary cable to go through the hole in the back of the box and wired the into their prospective ports.*

A usb cable for the Pinscape
A 3.5 mm to 3.5 mm stereo jacks going to input of the amplifier and to the headphone out of the Quest2, I had a problem later found the headphone out didn't work after a month so I ordered a USB C to audio and power adaptor that seems to work great.

2 wires soldered to the exciter speaker going to the amplifier
12 v 2amp power adaptor.
I have wired it all up and it works great.
Notice I I have daisy chained all the blue wires to all of the buttons as I mentioned earlier.


Lepai
LP-808
CD PC MP3 IN
Super Bass
2 Ch Output power Amplifier