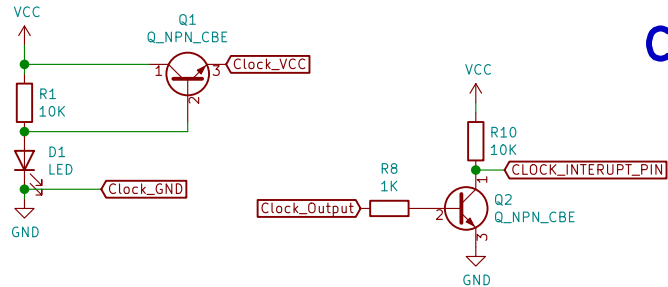


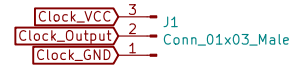
So i used clock circuitry from broken analog battery powered clock (i will refer to this small circuit board as "clock module") and hacked it in with this circuit. It powers it with 1.7 V and converts outputted by clock module 1.7 V pulses into 0 volt impulsed pulled up to VCC (5V)

WARNING ! :

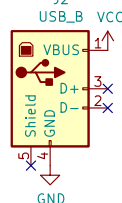
Clock_VCC, Clock_GND and Clock_Output are connected to connector that is representing clock module, but in my clock i soldered wires to clock module and then i soldered those wires directly to the board



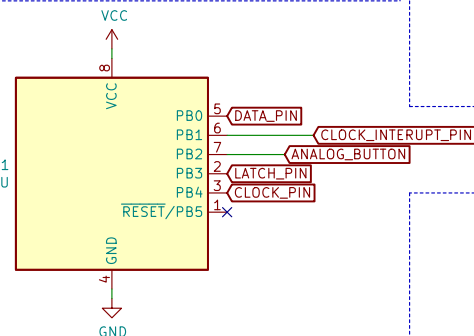
Clock signal circuitry



I soldered wire (with male USB A plug on the other side of wire) directly to board. Here on schematic i power input is represented by USB B connector but it can be any 5V power supply.

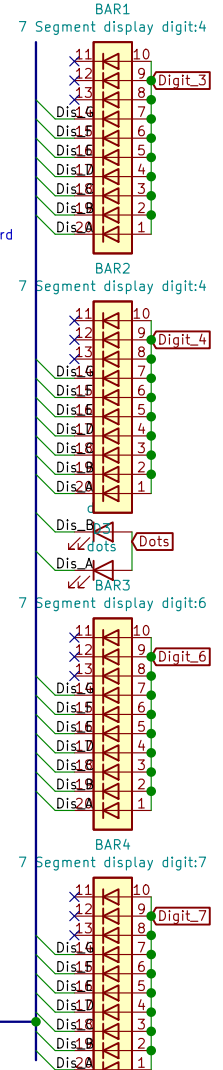
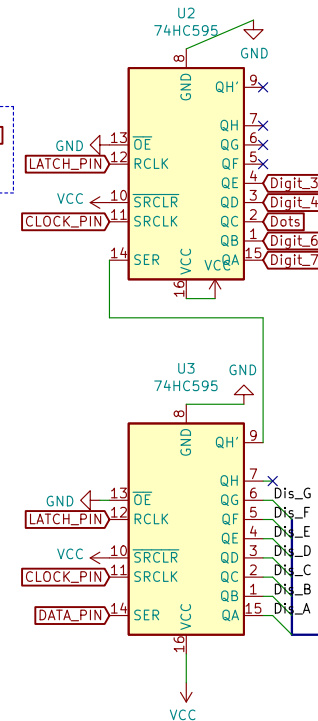


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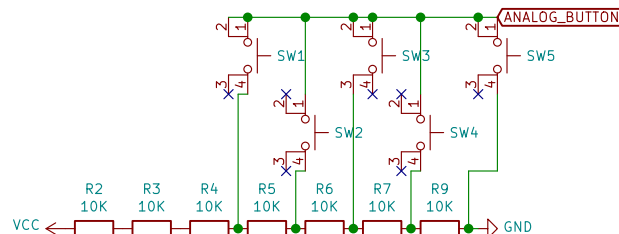


7 segment display & it's driver

So, i don't have 7 segment display symbols so let's pretend those BAR's are 7 segments display and those 2 LEDs in middle are dots on display. PS. I'm not sure to what pins of 7 segment display dots are connected but if i remember corectly those were B and C. But that doesn't matter since it is probably be diferend depending on display and i salvage mine from microwave oven board and you probably can't buy one.



Button array



Sheet: /
File: Microwave_clock.sch

Title: A Tiny Clock

Size: A4 Date: 2022-01-15
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1

Rev: 1.1
Id: 1/1