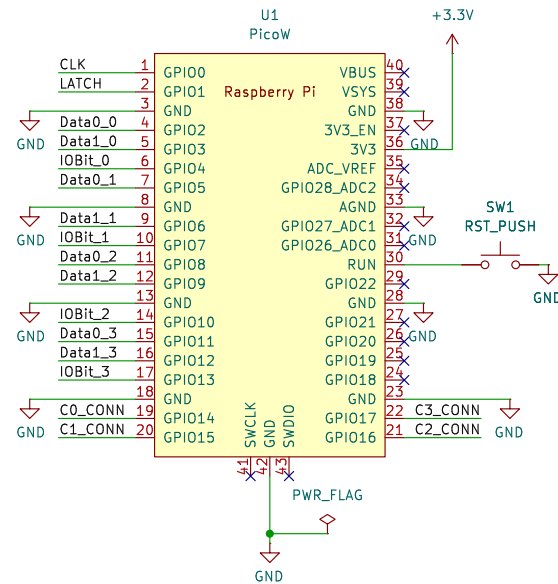
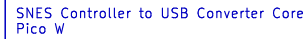
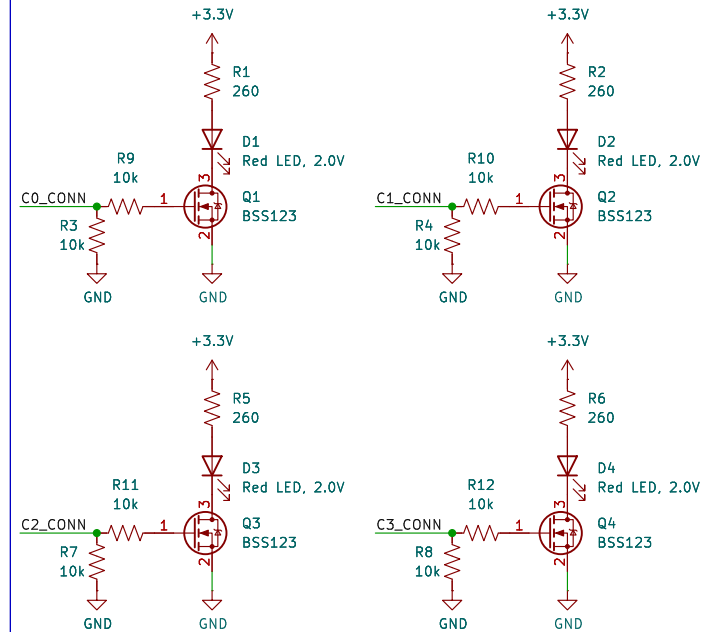


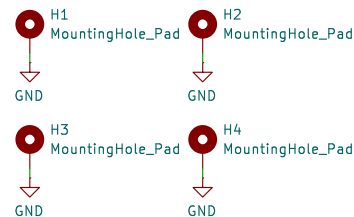
It's my understanding that SNES controllers' internal shift registers can run at a VCC of 3.3V, so we're powering the controllers from the Pico W directly. I don't expect shift registers to draw much power.



The Pico W does not expose its USB data lines, so as much as I wanted to use a USB C port, we can't unless we make our own RP2040 board.



$3.3V - 2.0V = 1.3V$ across R
 $I_R = 5mA$ desired
 $R = 1.3V / 0.005 A$
 $R = 260 \text{ Ohm}$



Designed By: Gabriel Marciano

Sheet: /
File: snes_controllers_to_usb.kicad_sch

Title: SNES Controllers to USB

Size: A4	Date: 2024-05-16
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Rev: B

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