I have been working on the design of a PCB for a TKL keyboard incorporating designs I have likes from other boards I have seen. I love the PCBs that have a lot of the components exposed along the top of the board, so I laid it out in that way.

Details:

\* Controller: Raspberry Pi Pico (RP2040)

\* Rotary encoder with push button: It is wired into the key matrix in the position to the right of the escape key.

\* SK6812-MINI-E Addressable RGB LED under each key

\* Designed to use mill max 7305 hot swap sockets or be soldered directly

\* USB C connector wired for USB 2.0

\* Standard ANSI TKL layout with some extra locations to add nonstandard keys

This link takes you to an imgur album of the renders from kicad (ignore the green highlighted key I didn’t realize it was highlighted when I exported the image). The First image shows the board as I will have it laid out. The second image shows all the possible switch locations filled in. The third image is just the bare board.

<https://imgur.com/a/hLmh1j1>