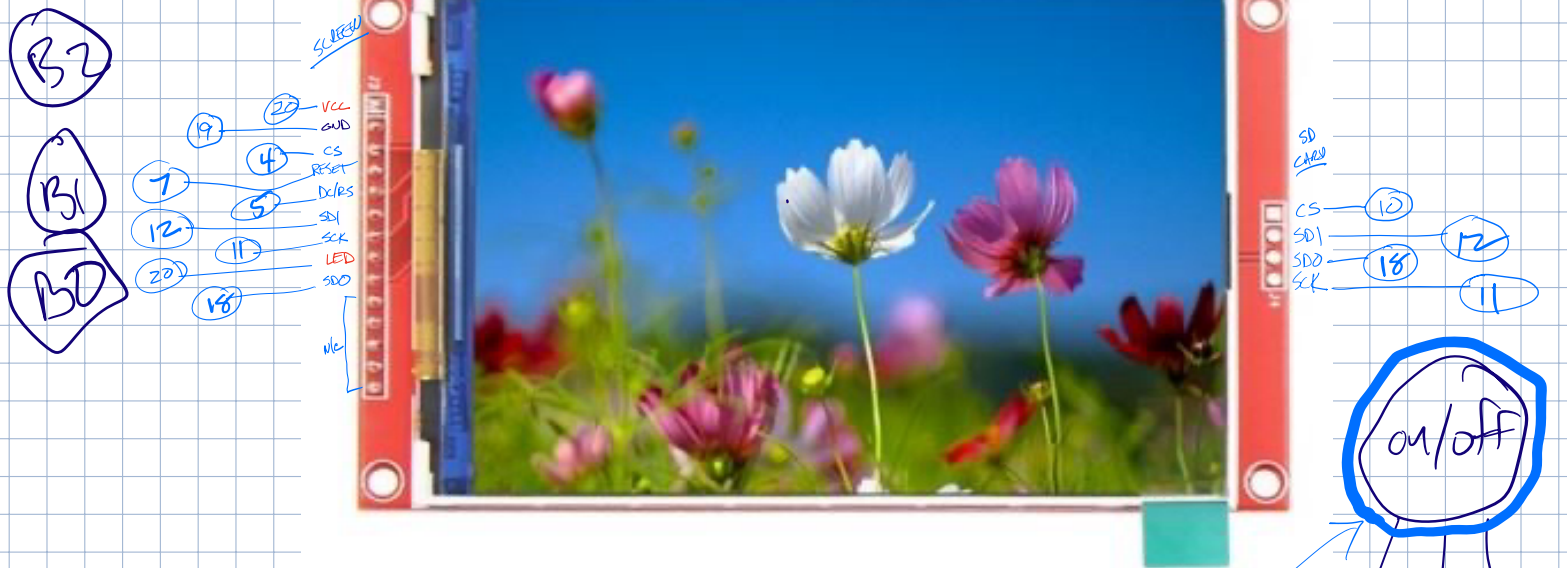
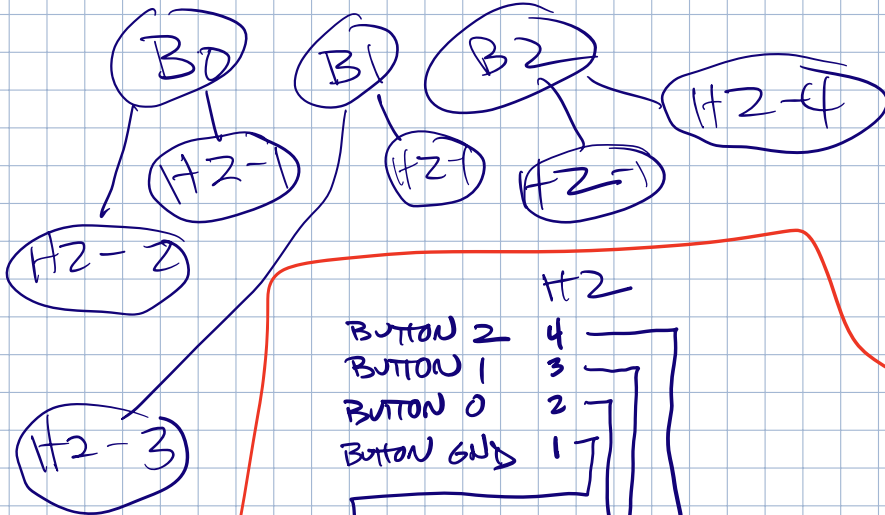


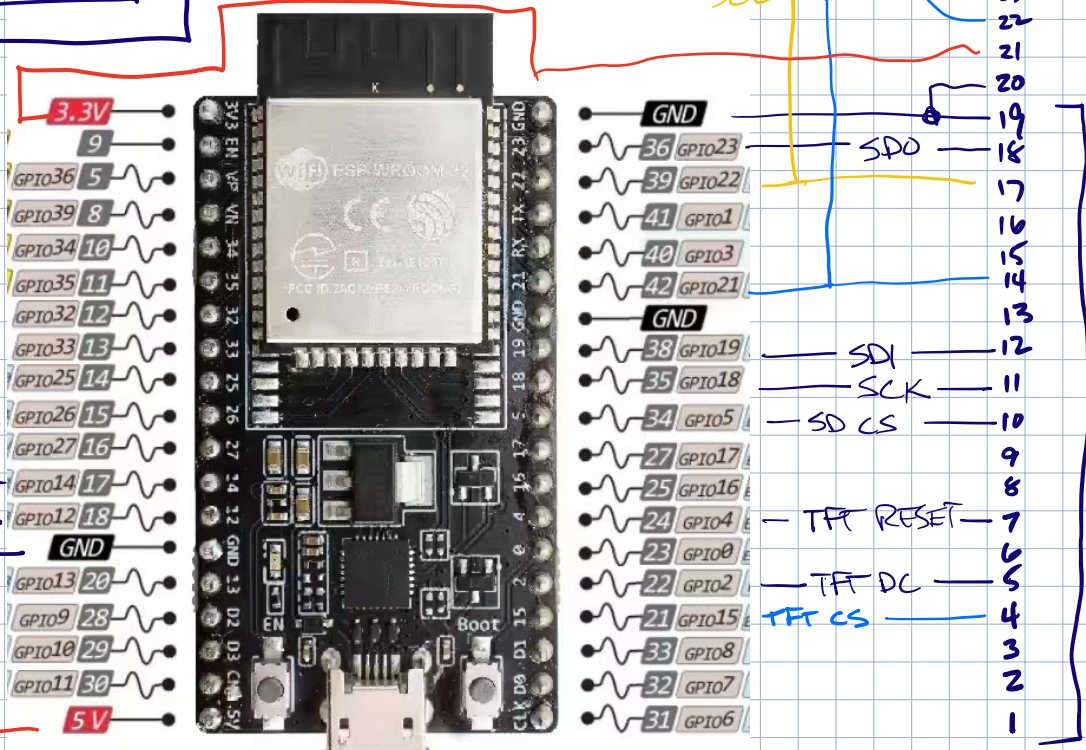
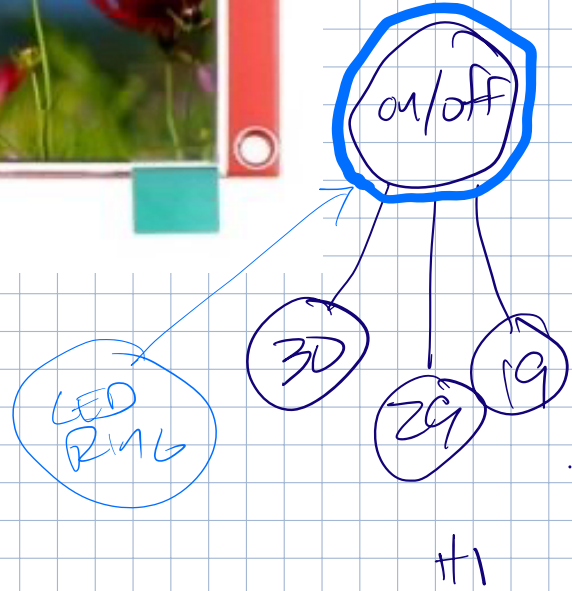
CONNECTION TO HEADLINE WIRED UNDER DISPLAY BOARD



USER INPUT

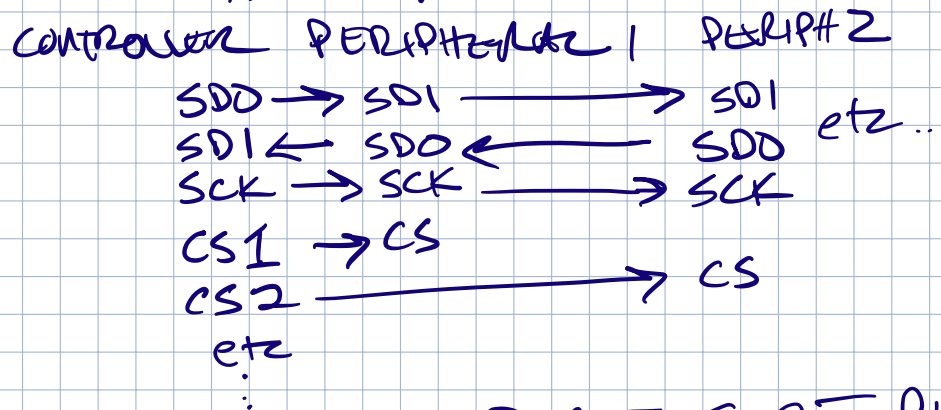


H2
 BUTTON 2 4
 BUTTON 1 3
 BUTTON 0 2
 BUTTON GND 1



NOTE:

SDI/SDO replaces MOSI/MISO notation



LEFT SIDE
ESP32 PINS
WIRE TO HEADERS 1 on 2
As needed

RIGHT SIDE PINS
DIRECT TO HEADER
1 = GPIO6
19 = GND

I2C BUS (RTC, Thermocouple Amp)

SDA - GPIO21 BLUE H1-22
SCL - GPIO22 YELLOW H1-23
3.3V H1-21
GND H1-20

SPI BUS (TFT, SD CARD)

SDO H1-18
SDI H1-17
SCK H1-11
CS1 (TFT) H1-4

CS2 (SD CARD) H1-10

TFT PINS DEFINED in my setup file

ADDITIONAL TFT CONNECTIONS

3.3V } → 3.3V from ESP32
LED }

GND COMMON GROUND

RESET

LCD RESET

GPIO4

H1-9

DC/RS

COMMAND/DATA SELECT

GPIO2

H1-5

SWITCH HAS LIGHTED LED RING WHEN
POWERED, NEEDS GROUND CONNECTION
BUTTON ON TOP BOARD (OR AT LEAST TOP 6 BOX)

BATTERY POWER TO HEADER. (H1) SWITCH
SWITCHED POWER TO HEADER (H1) ON H2

DESIGNED SO TOP 6 BOX WITH

BUTTONS, POWER SWITCH, TFT + SD CAN
BE REMOVED - ALL CONNECTIONS
THROUGH HEADER

BUTTON 6 BOX ESP32, RTC, THERMO,
THERMO CONNECT, BATTERY BOX