11/8/23

Meeting

Rough bleh of stuff we talked about.

* Question whether D0 Rain Sensor needs pull down or up resistor
* Added C4/C5 as decoupling capacitors on 3.3V Line
* Disconnected A0 of rain sensor from the ESP
* R2 is NP just in case a pull up is needed for D0 of rain sensor
* R1 is a pull up resistor
* R1 is pull up for DHT11 Sensor
* Need schematic to be compatible with DHT22 upgrade
* R15 added as a NP just in case a pull down resistor is needed
* R1 changed into a NP just in case a pull up resistor is needed instead.
* Individual GNDs added to specific pinout on schematic for cleaner look
* Keypad controls uses 4x4 Matrix connected to TCA8418 with communication using I2C
* TCA8418 is Soldered onto PCB
* ESP USB should not be connected when already powered otherwise
* Question whether a switch is needed for USB pin 26 on ESP
* R8/R9 is 0 just in case changes needed to be made
* D3 used to show if window is open
* D1 is LED RGB for environmental state. R G B
* Buzzeer output from ESP pin 16 to Buzzer.
* Question whether a universal RST switch is needed or just specific switch for ESP
* Maybe Display has its own discrete reset button?
  + Confirmed
* I2C/Display/ESP32 RST talk
* RST SW (Pin 7 I2C) global label made for reset
* Motor may need pull resistors. Not known yet. R3,4,5,7,12. Unknown since motor uses digital signals.
* Question whether ADC needs an input
  + Don’t think it matters\*\*
* Layout question of having RESET connected via through hole so that it can jumper to enclosure
* BOM exact details questions asked.
* BOM Spit out by layout is ok.
  + Needs to be reformatted
* Stickers for keypad?
* USING SMD