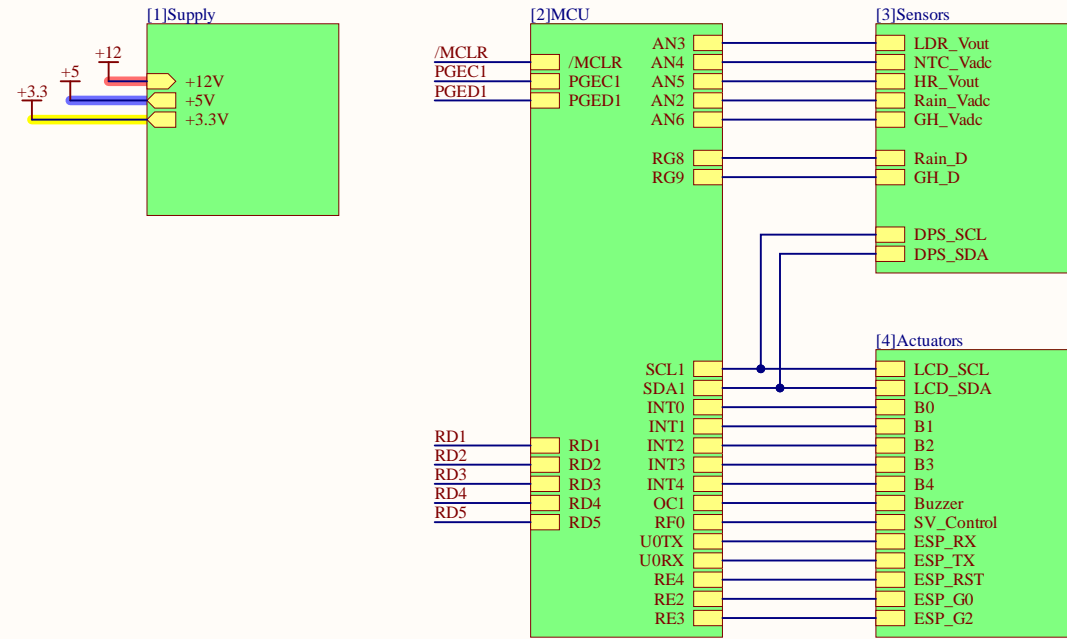
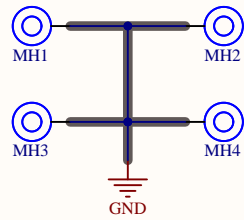


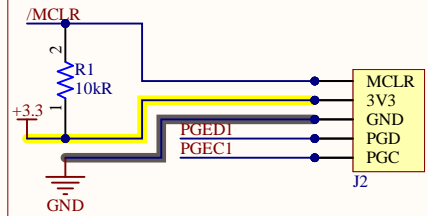
Smart Garden PCB



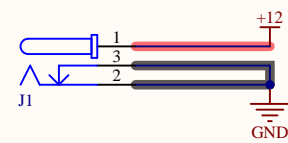
Mounting Holes



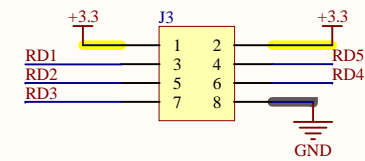
PICKIT4 connector



Supply Connector

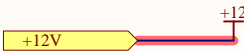


Expansion Connector

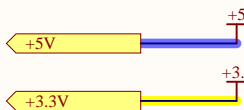


Supply

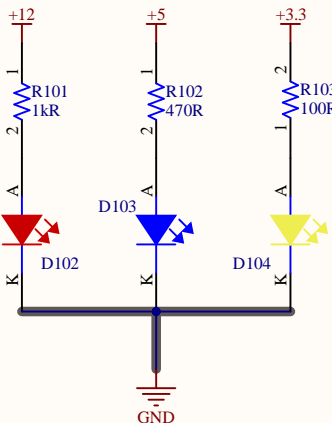
Inputs



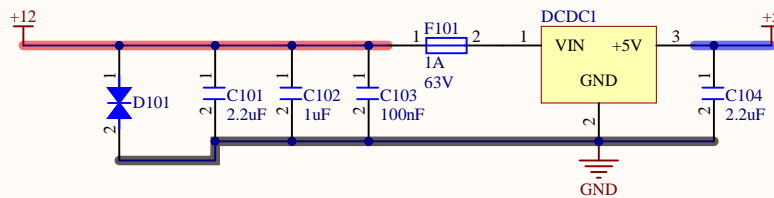
Outputs



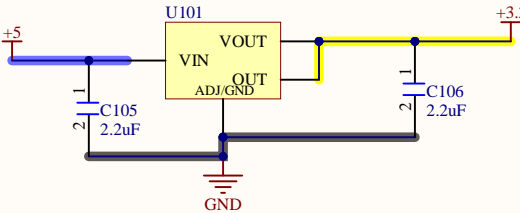
Power LEDs



5V supply

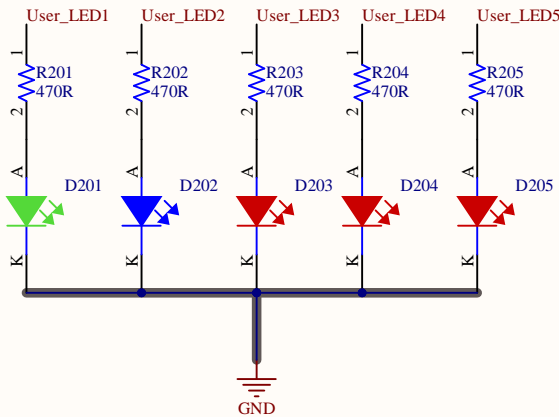


3.3V supply

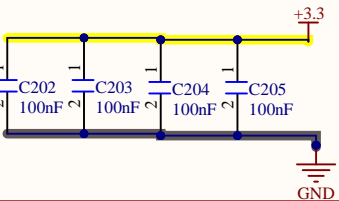


PIC Microcontroller

User LEDs

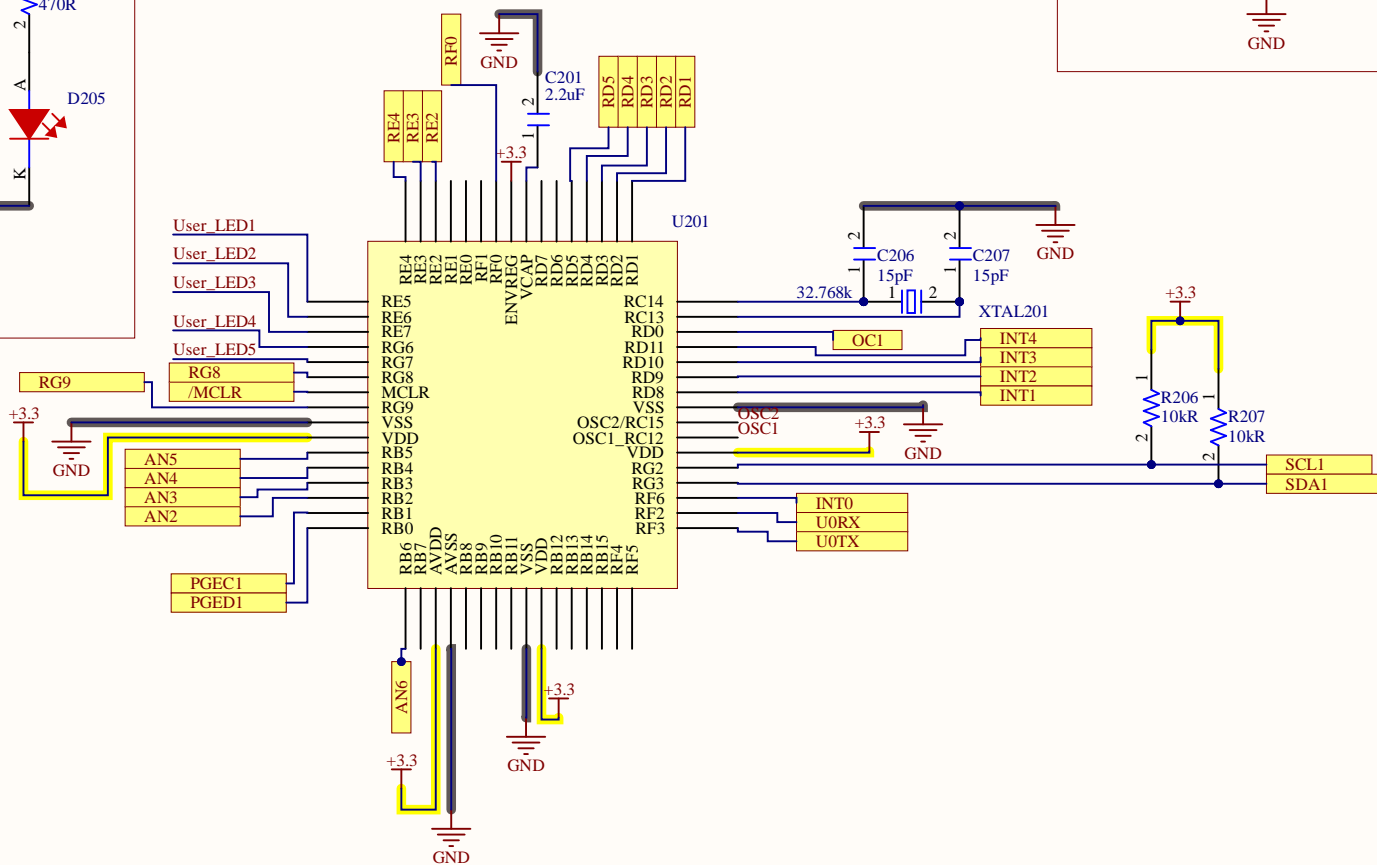
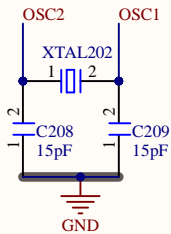


Decoupling capacitors



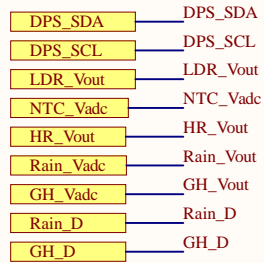
Place near each VDD and VSS pins

20MHz XTAL

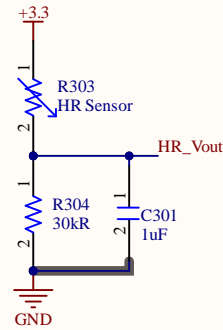


Sensors

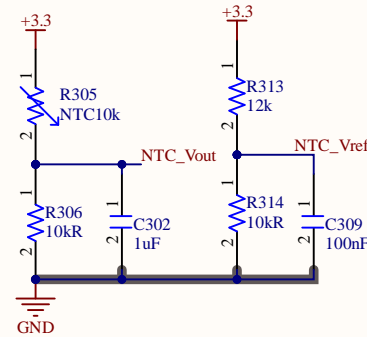
Inputs & Outputs



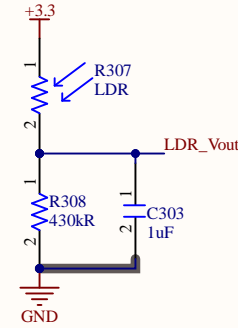
HR sensor



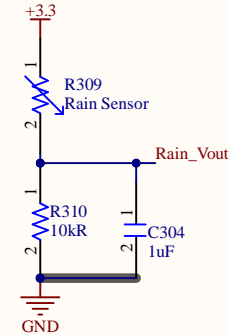
NTC sensor



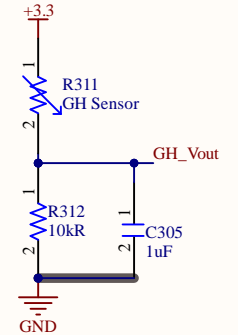
LDR sensor



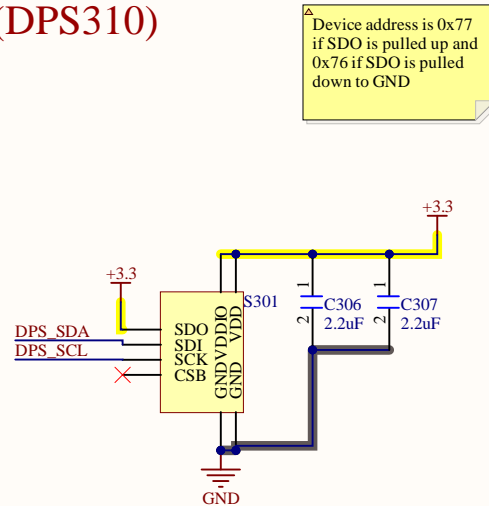
Rain sensor



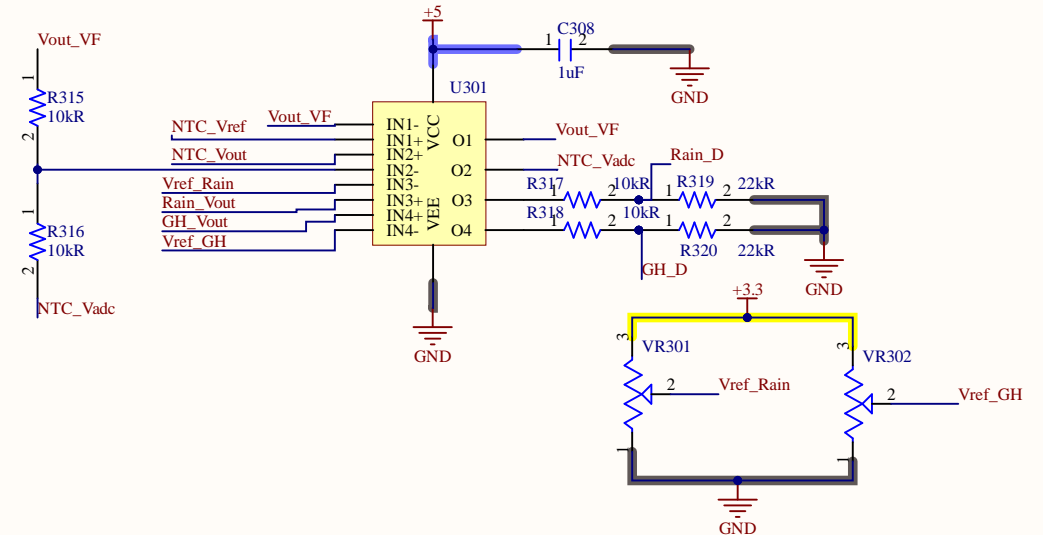
GH sensor



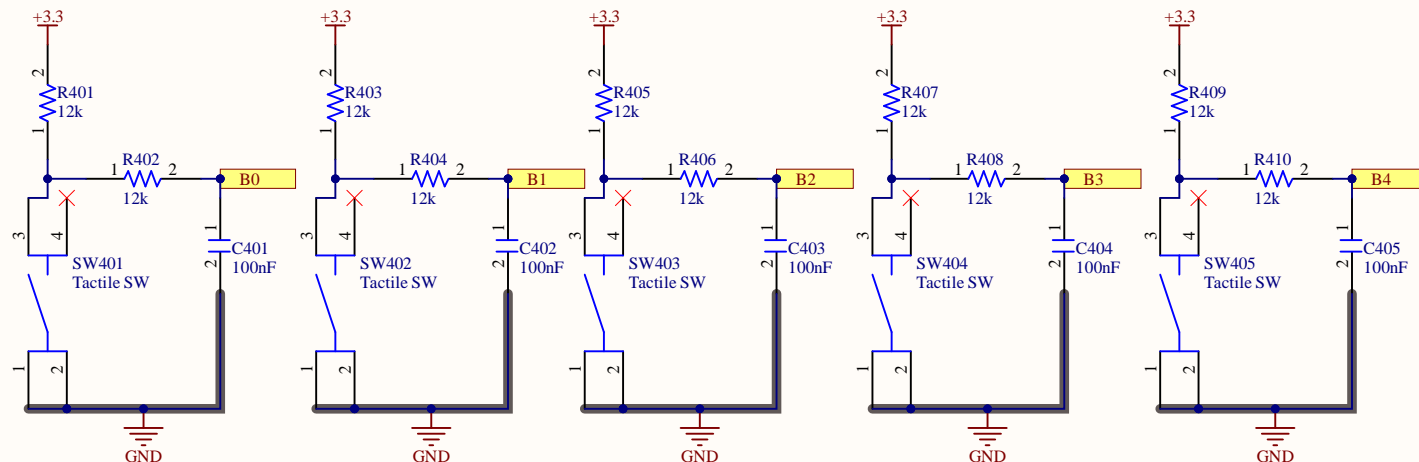
Atm Pressure (DPS310)



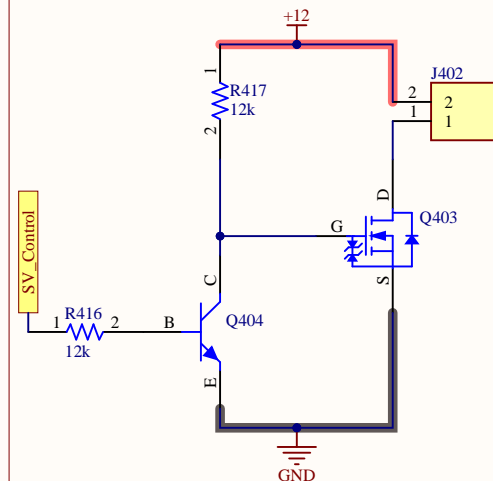
OpAmp Conditioning



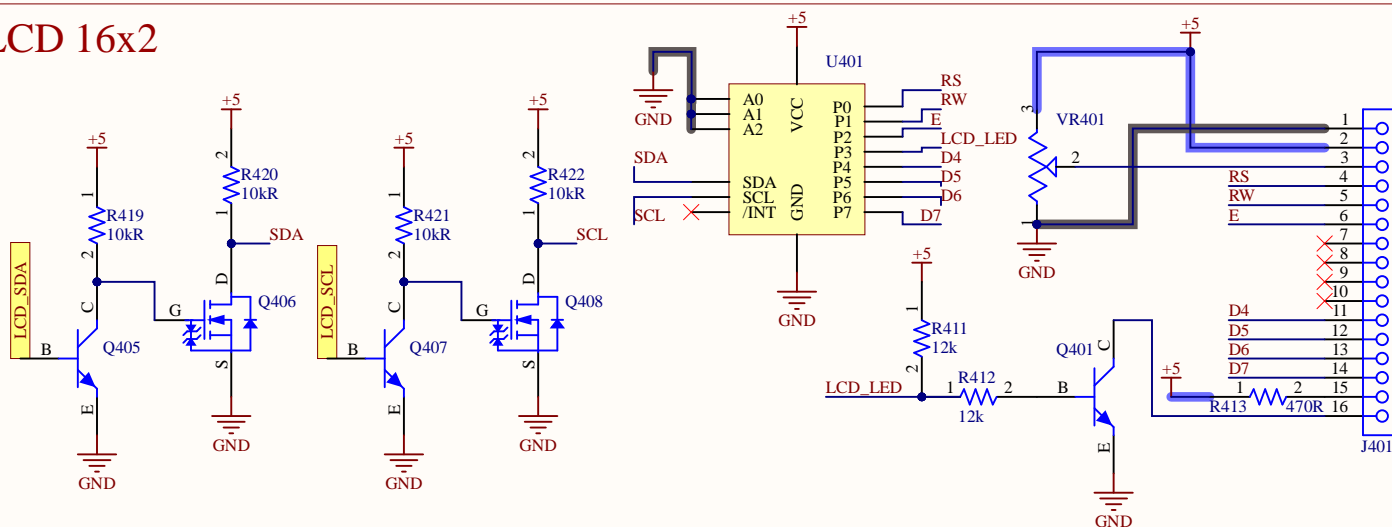
User buttons



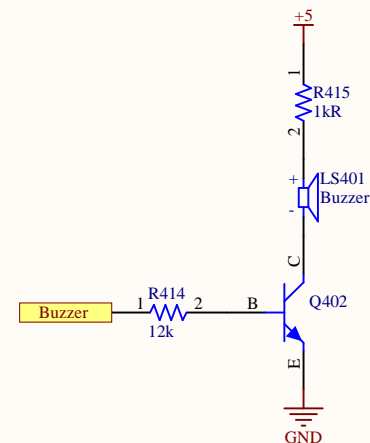
SV control



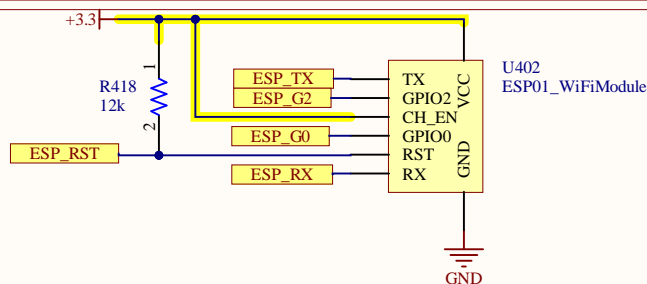
LCD 16x2



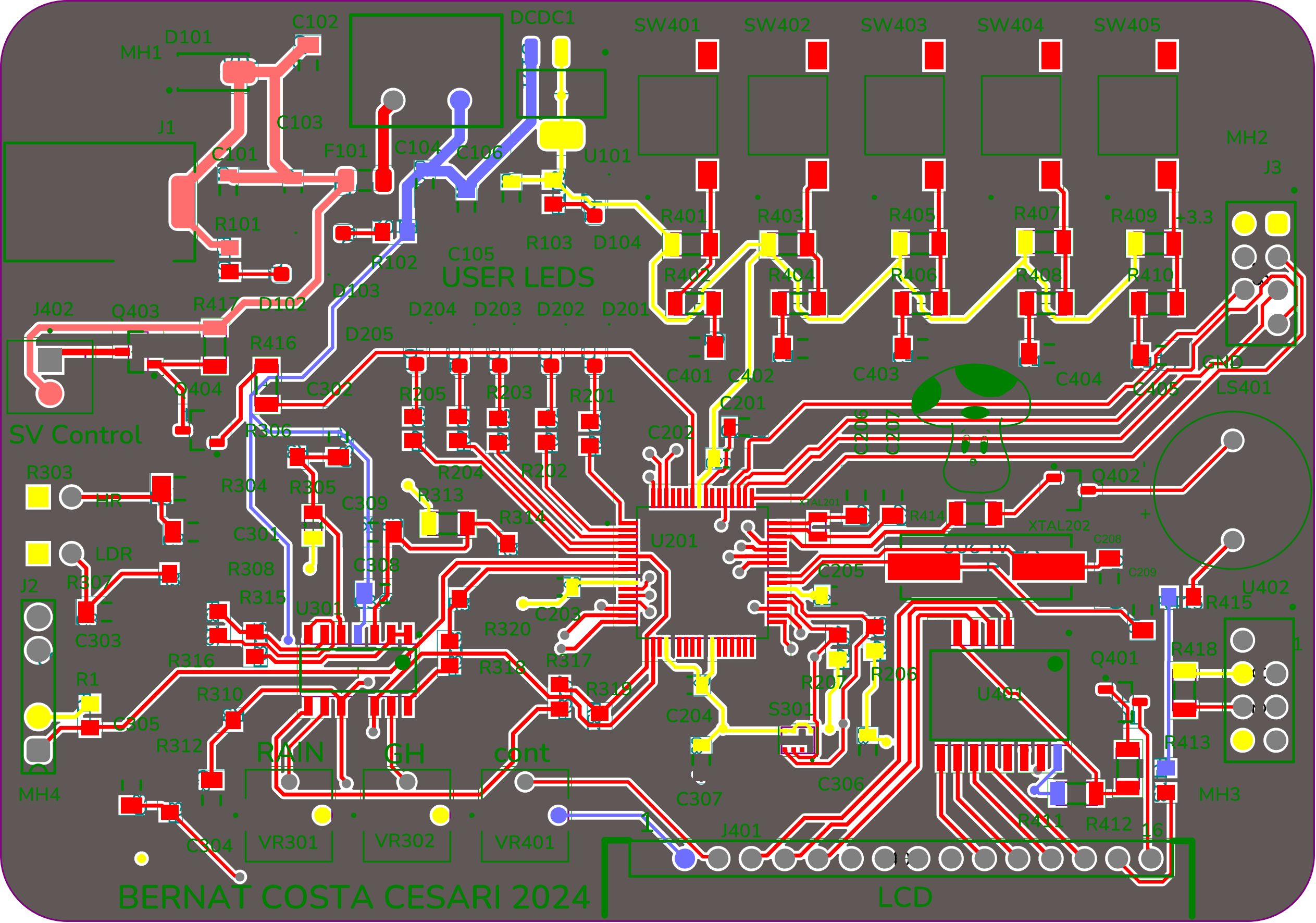
Buzzer



ESP01 WiFi Module

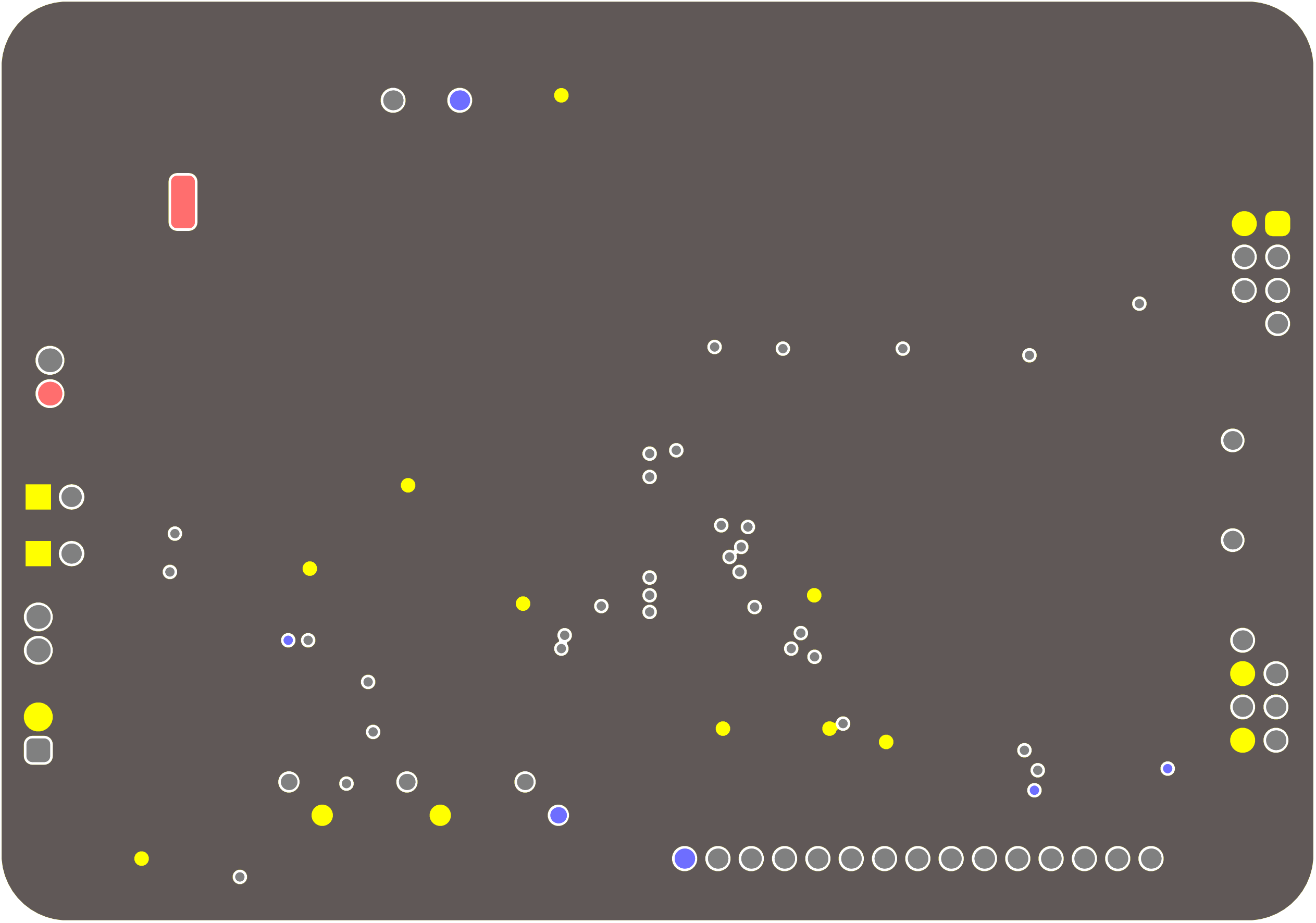


△ If A2, A1 and A0 are connected to GND read address is 0x71 and write address is 0x70



BERNAT COSTA CESARI 2024

LCD





SMART GARDEN PCB



GH
R311

RAIN
R309

