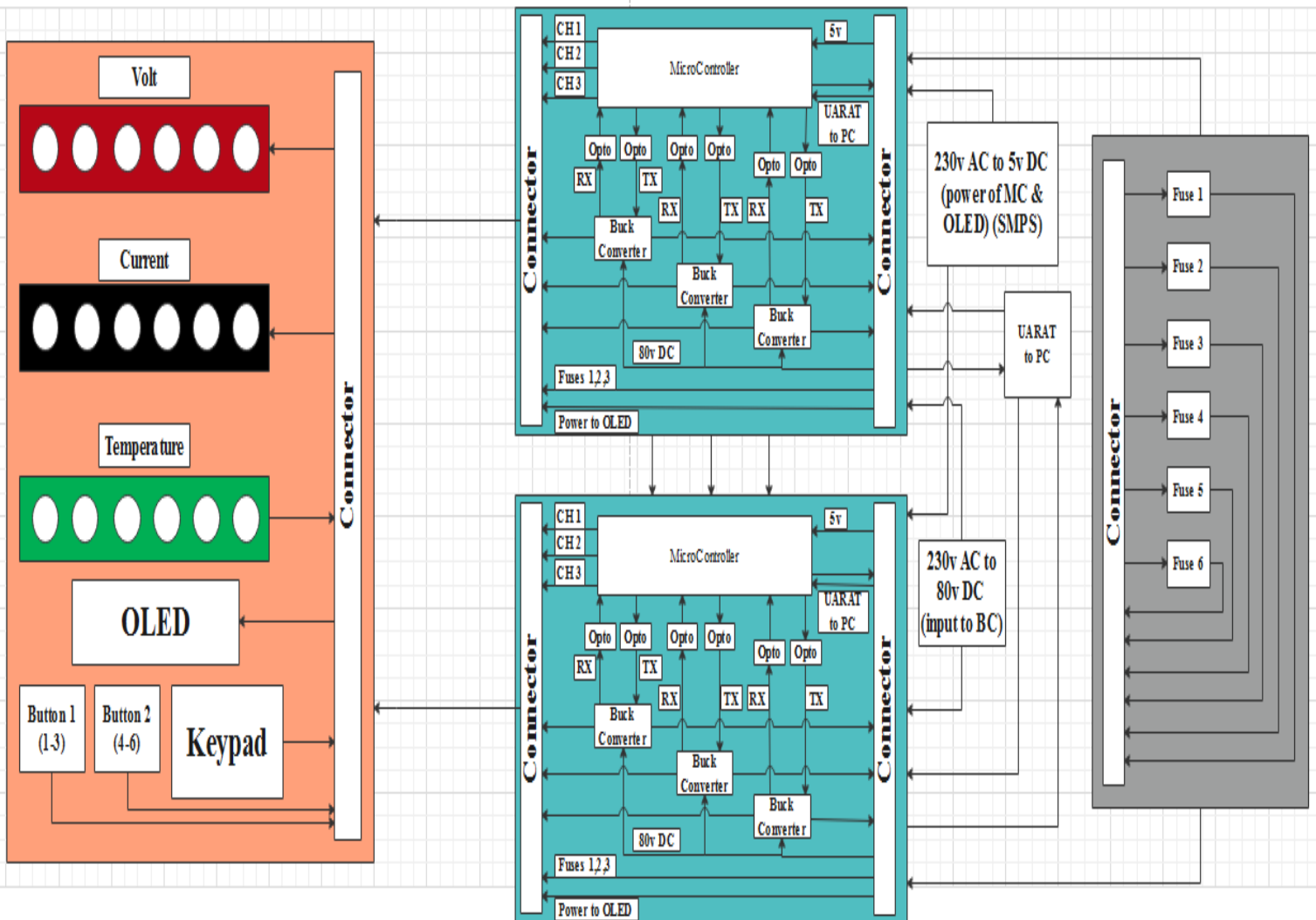
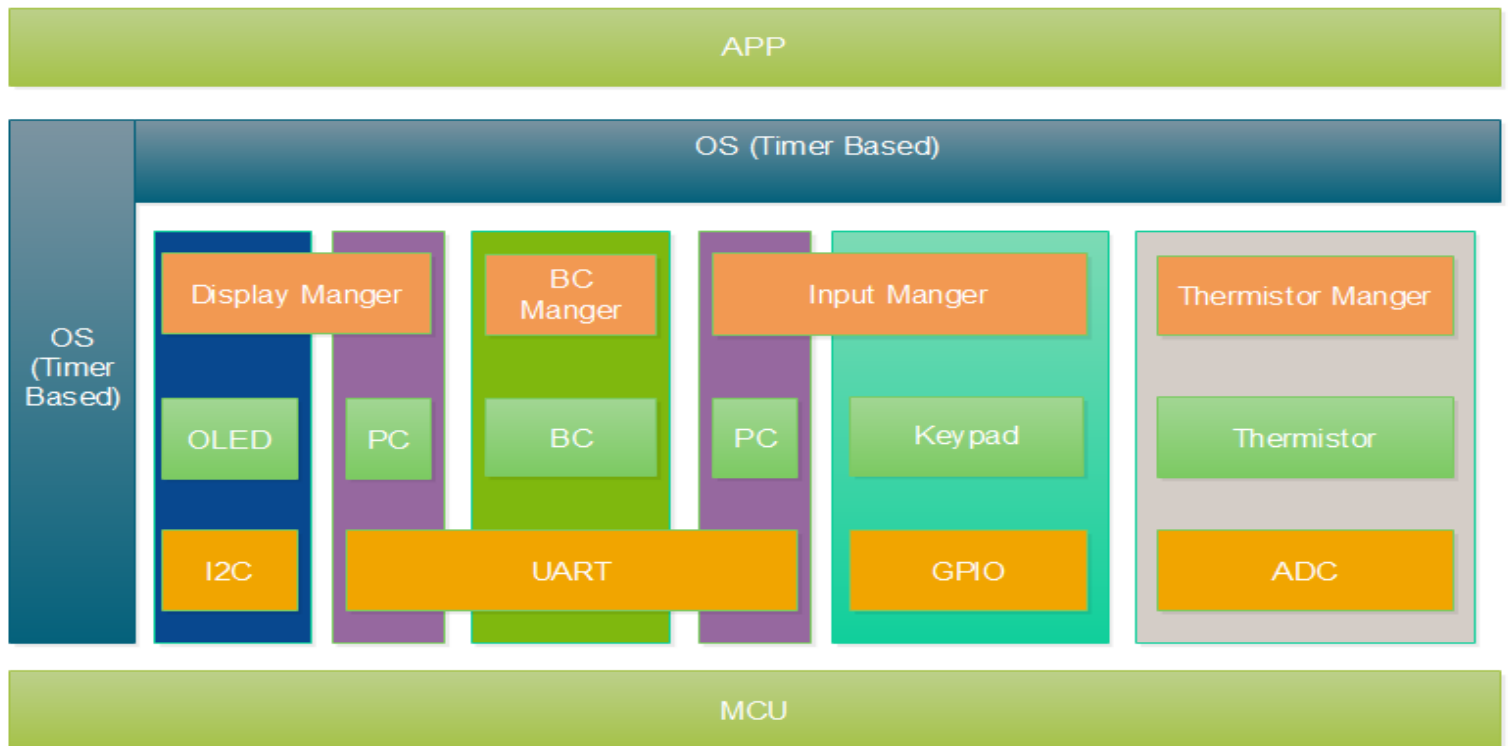


Project Design

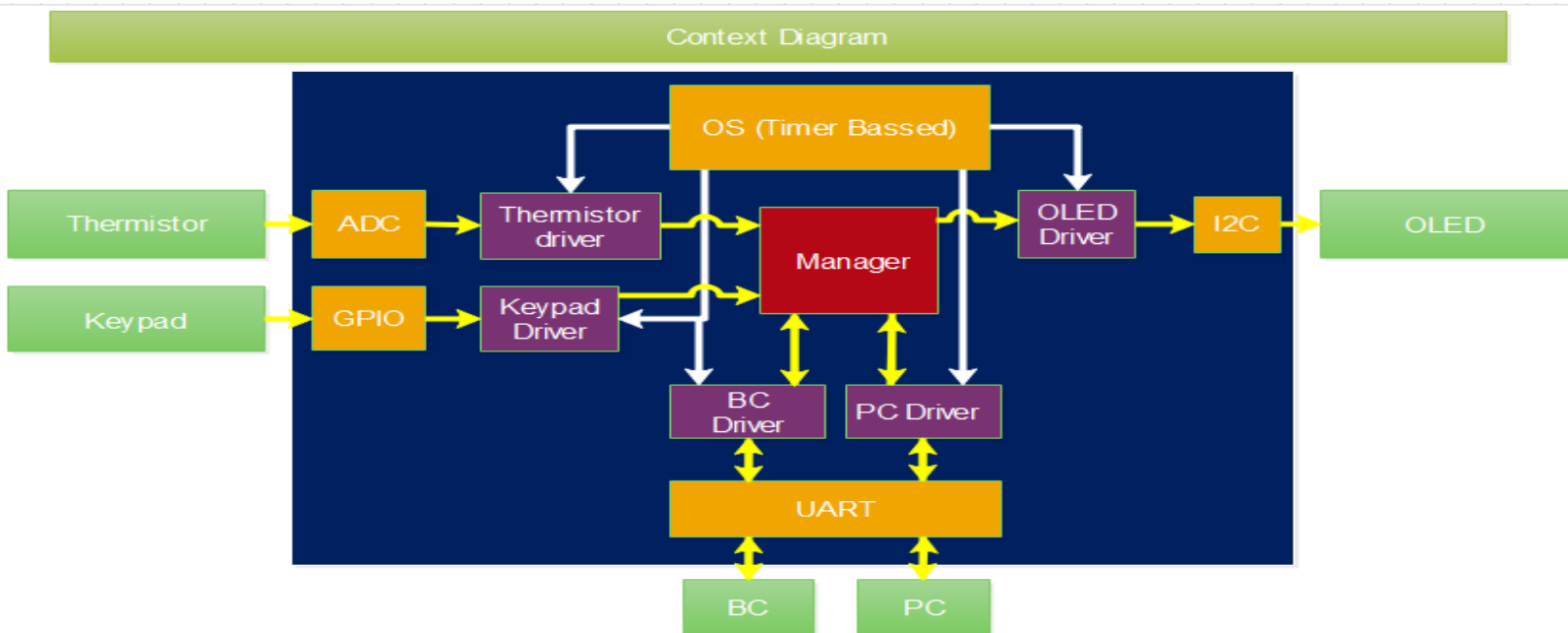
1. System Diagram



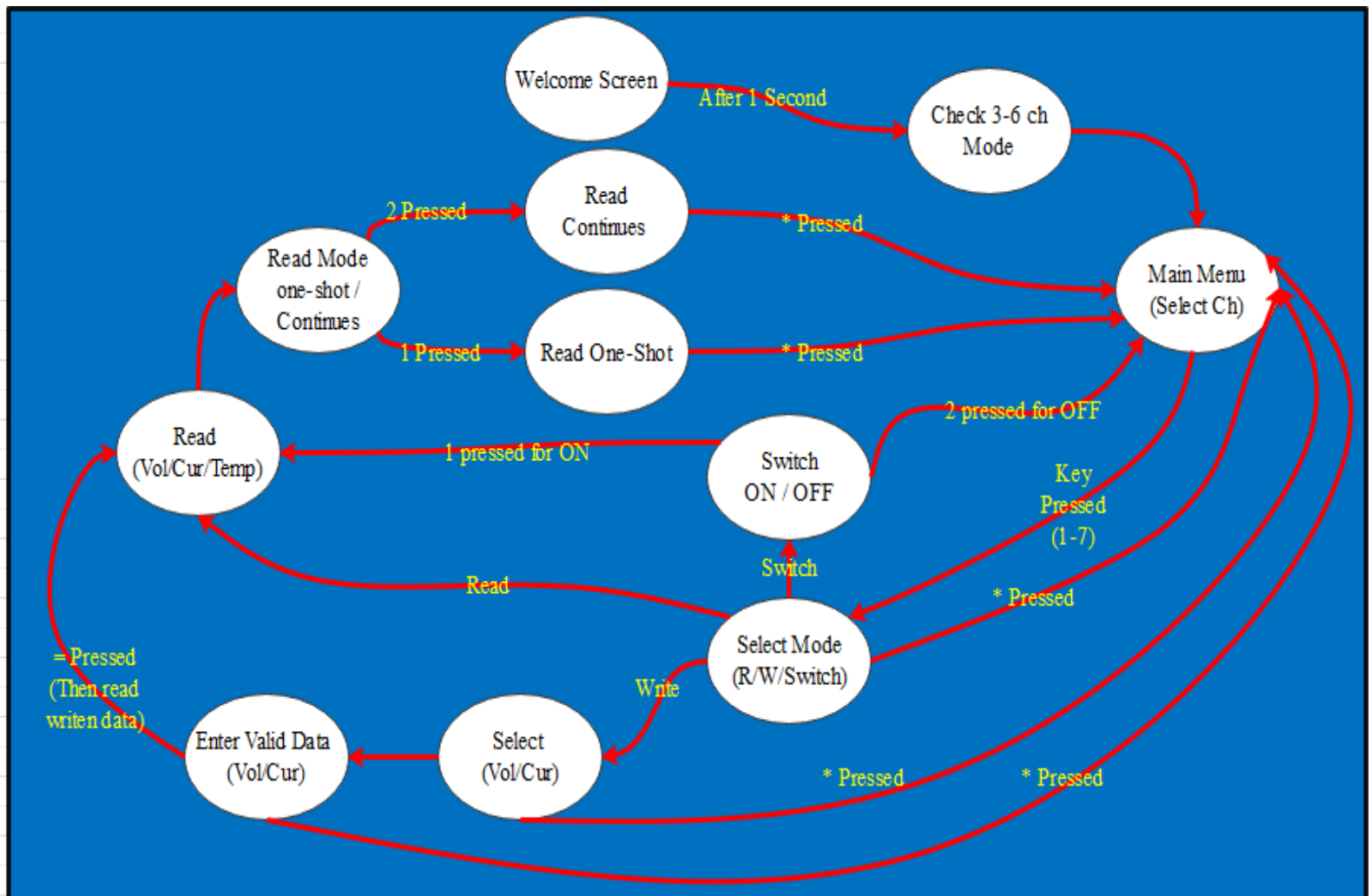
2. Software Layer architecture



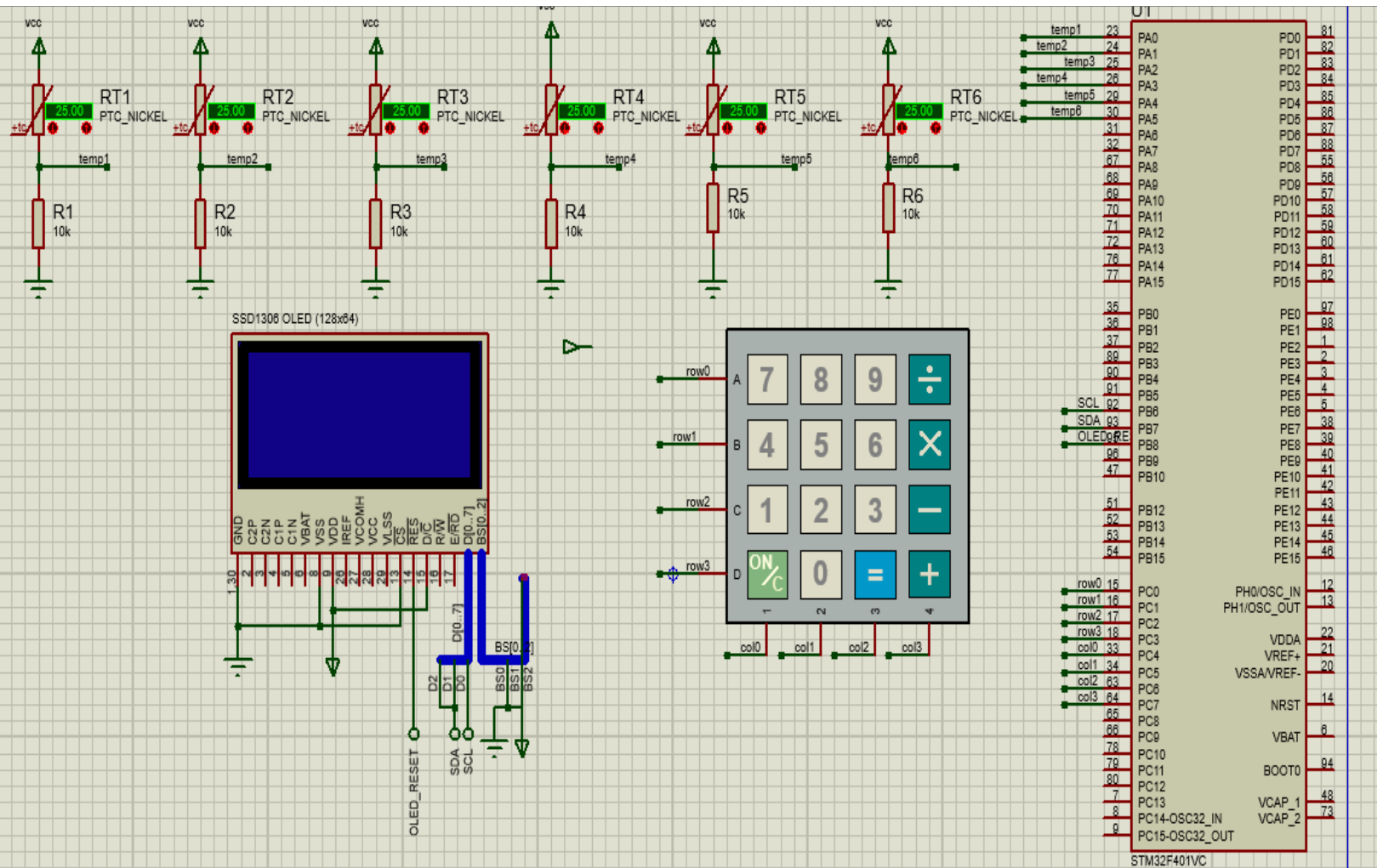
3. Context Diagram



4. Software State machine



5. Initial Circuit Schematic



6. Component Selection

1) uC Selection

NUCLEO-F091RC (STM32F091RCTx)

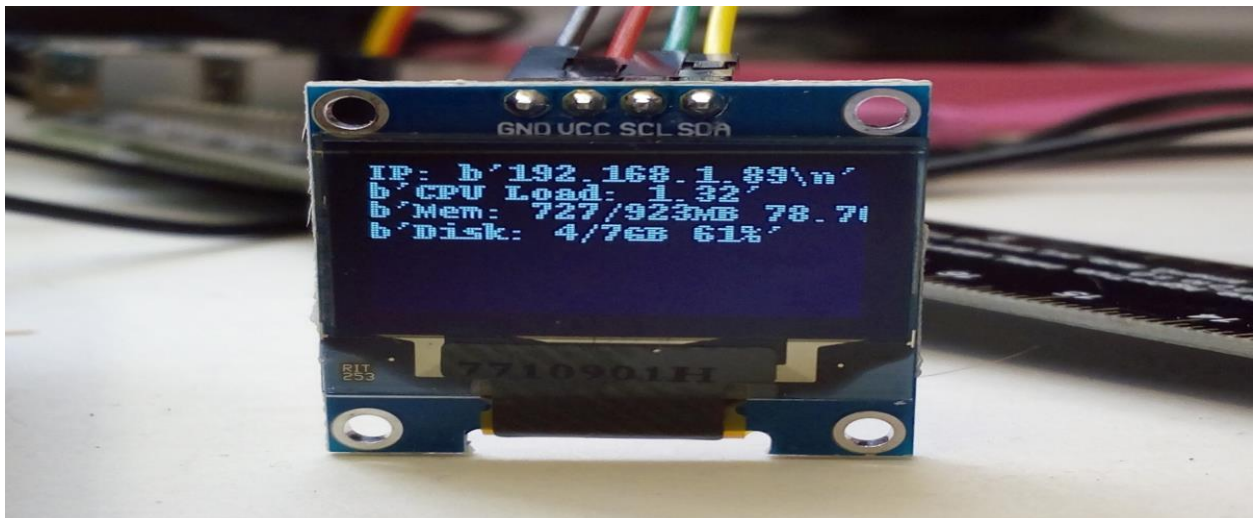
- has 8 USARTs

2) Main interface (first priority)

-PC (using UART)

3) OLED/LCD Selection (pin connections are as same as 0.96: OLED display)

-SSD1306 OLED (128x64) (<https://www.adafruit.com/product/326> but 2.4 inch)



4) Keypad 4*4

