

Hazardous Gas Detection System

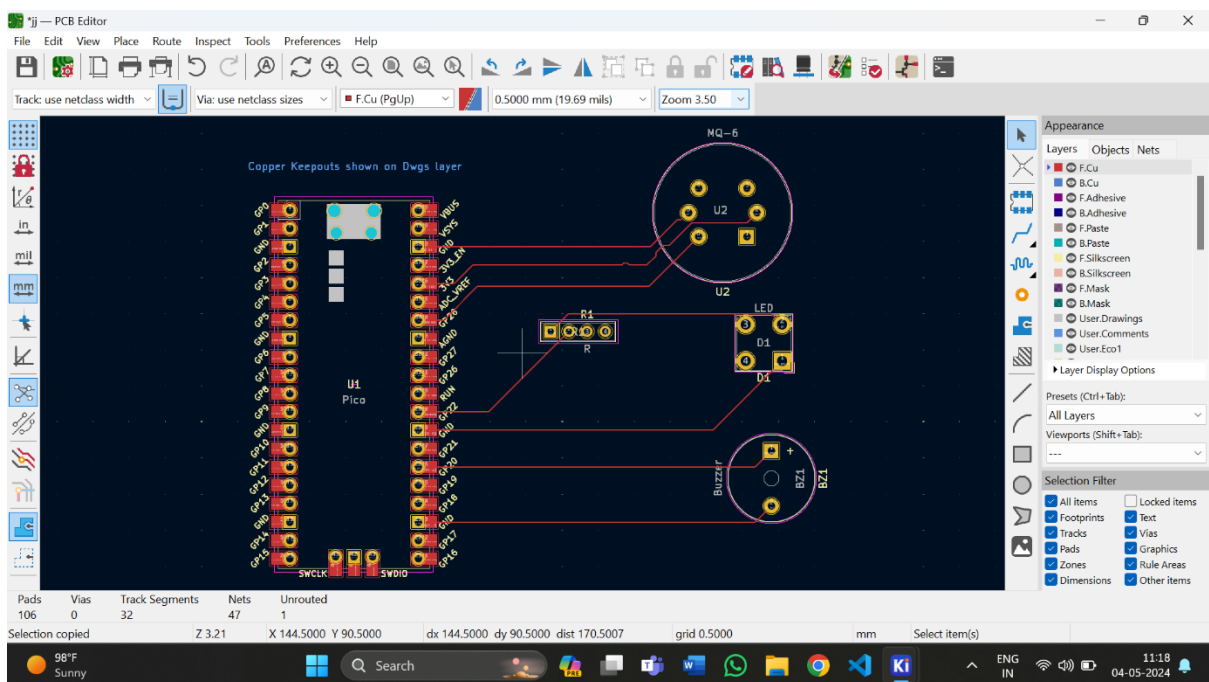
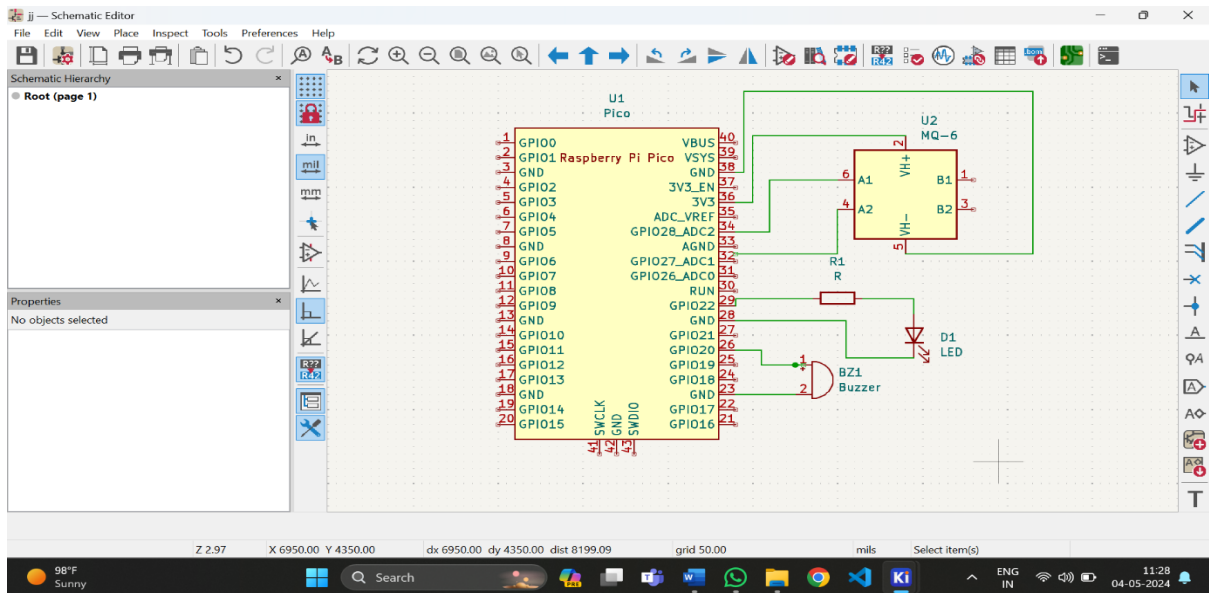
Name: Thondlam Simhadri -(22785A0427)

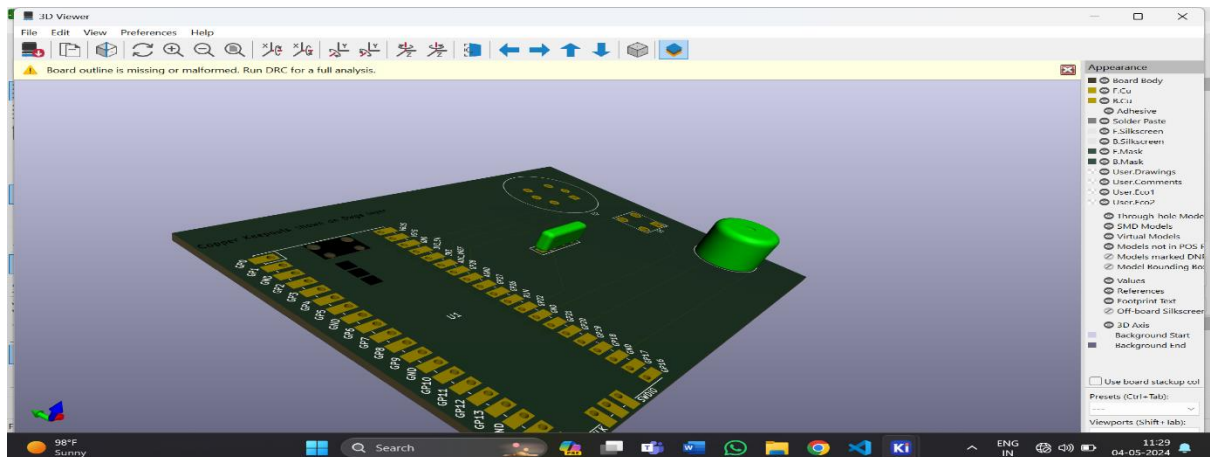
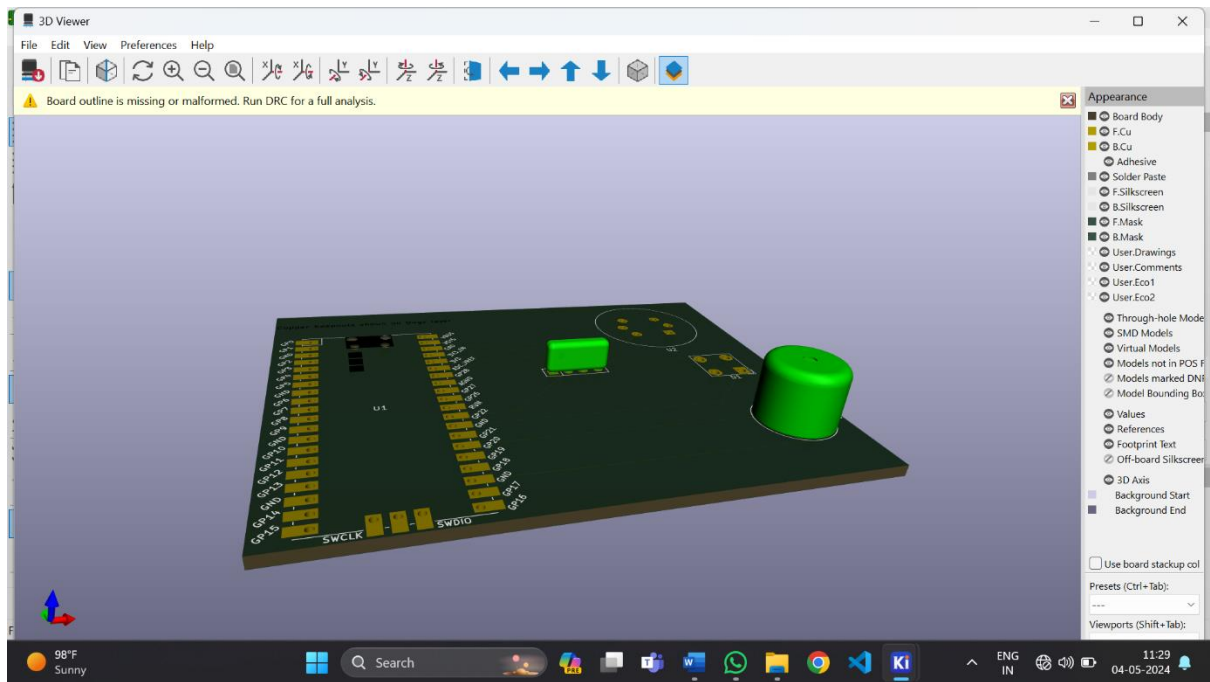
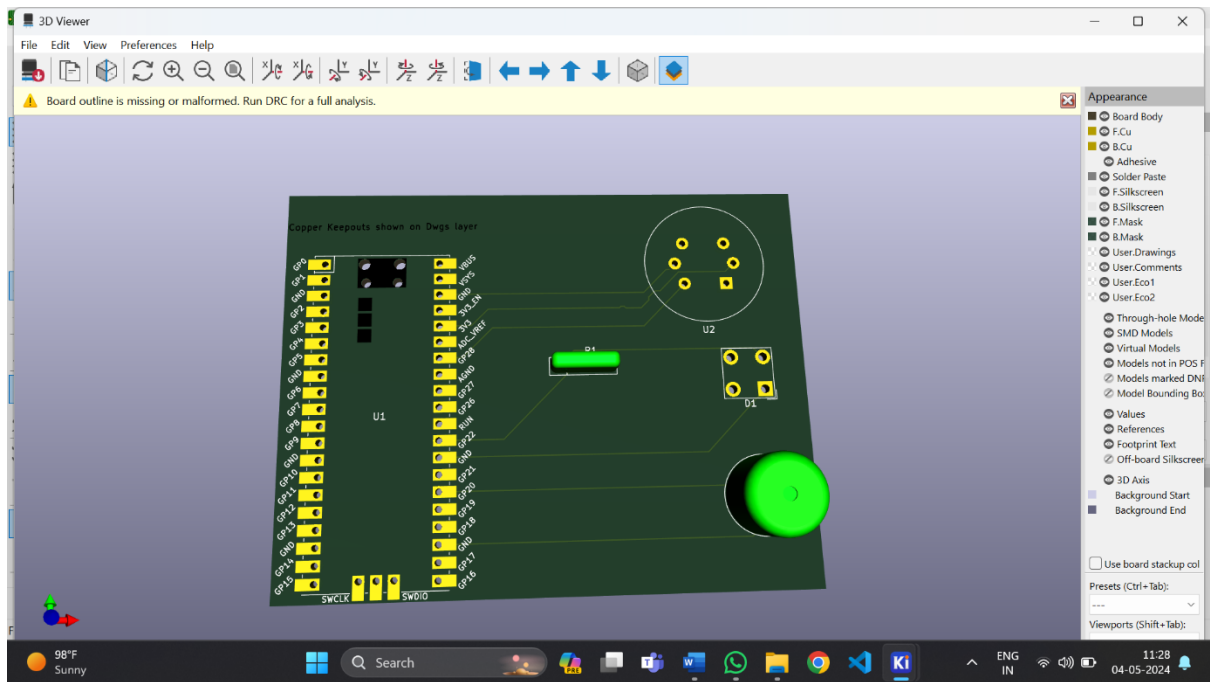
Uppuluri Chandu -(22785A0429)

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Git Hub : <https://github.com/Simhadri55/assignment.git>





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Thonny - Raspberry Pi Pico :: /motion.py @ 18:16
File Edit View Run Tools Help

<untitled> [motion.py] [main.py] [led.py]

1 import machine
2 import time
3
4 # Define pin numbers
5 PIR_PIN = machine.Pin(27, machine.Pin.IN)
6 BUZZER_PIN = machine.Pin(6, machine.Pin.OUT)
7
8 # Function to activate the buzzer
9 def activate_buzzer():
10     BUZZER_PIN.on() # Turn buzzer on
11     time.sleep(0.5) # Keep buzzer on for 0.5 seconds
12     BUZZER_PIN.off() # Turn buzzer off
13
14
15 # Main loop to detect motion
16 while True:
17     if PIR_PIN.value(): # PIR sensor detects motion
18         print("Person is there!")
19         activate_buzzer() # Activate the buzzer
20         time.sleep(0.2) # Small delay to debounce and save CPU
21
```

```
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```
Shell
Person is there!
Person is there!
Person is there!
Person is there!
Person is there!
Person is there!
Person is there!
Person is there!
```

MicroPython (Raspberry Pi Pico) • Board C

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