No.	Componenets	Sourcing Information
1	ESP32-S3 Dev Module	KiCAD
2	MQ-135 Gas Sensor	https://grabcad.com/library/tag/mq135
3	Sound Sensor Module	https://www.snapeda.com/
4	OLED Display	https://www.snapeda.com/
5	BME280 Environmental Sensor	https://www.snapeda.com/
6	Solar Panel	https://www.snapeda.com/
7	Rechargeable Module (TP4056)	https://www.snapeda.com/parts/TP4056/Na nJing%20Top%20Power%20ASIC%20Corp./ view-part/
8	IR Flame Sensor	https://grabcad.com/library/ir-sensor-7

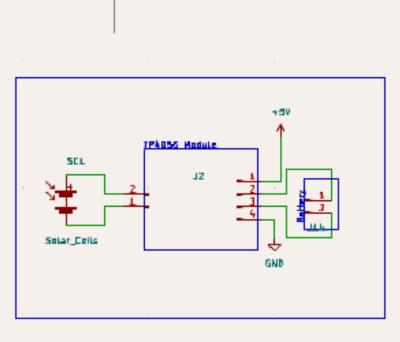
No.	Components	Sourcing Information
9	Battery 3.7v 2500mAh 18560	https://www.snapeda.com/
10	Voltage Booster	https://www.snapeda.com/
11	Dust Sensor	https://www.snapeda.com/
12	Hall Effect Sensor	https://www.snapeda.com/
13	MAX471 Current and Voltage Sensor	https://www.snapeda.com/
14	Water Flow Sensor 2.5	https://www.snapeda.com/
15	DHT 11 Temperature and Humidity Sensor	https://www.snapeda.com/
16	Soil Moisture Sensor	https://www.snapeda.com/

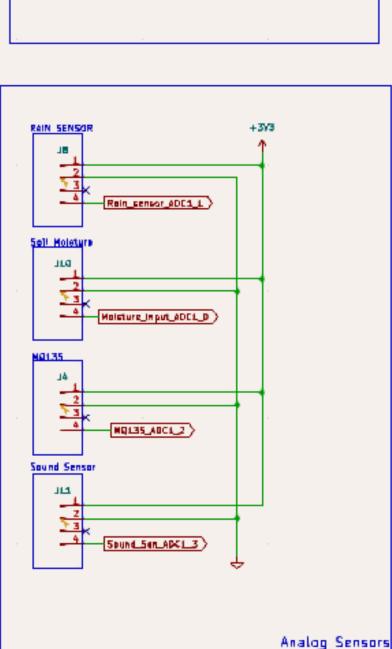


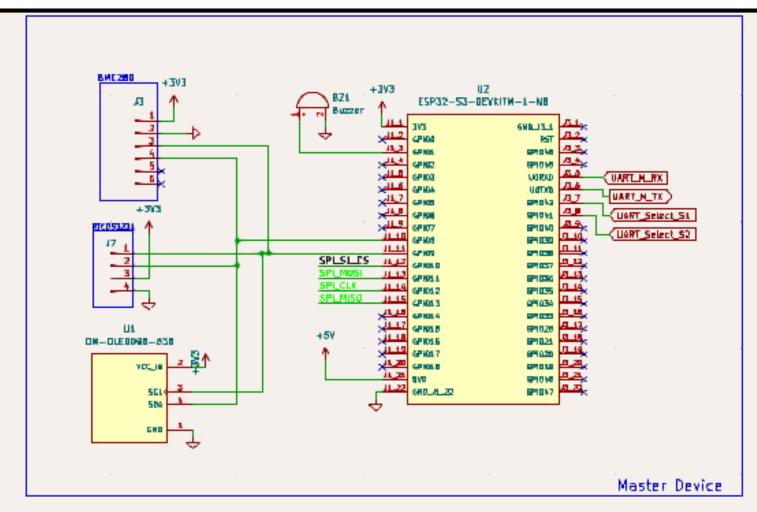
No.	Components	Sourcing Information
17	Relay Module	https://www.snapeda.com/
18	Rain Sensor	https://www.snapeda.com/
19	RTC DS3231 module	https://www.snapeda.com/

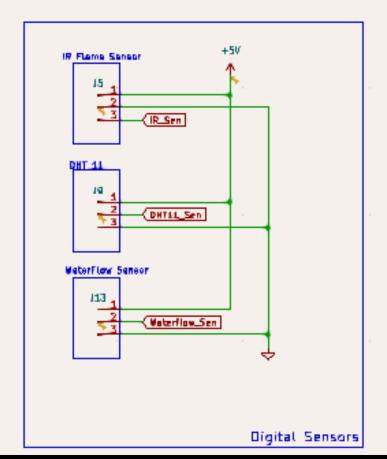
Complete PCB Layout

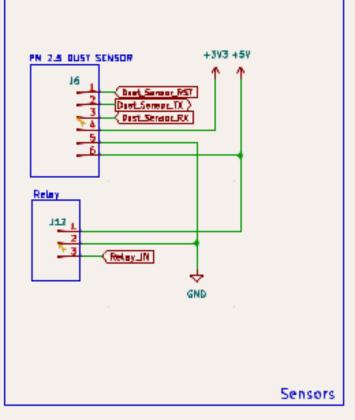


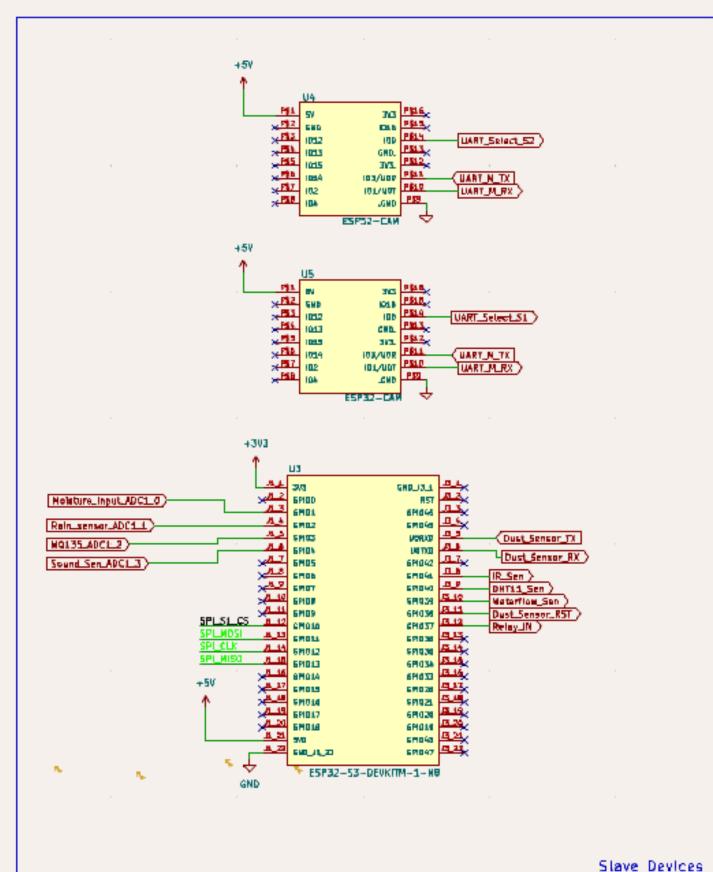








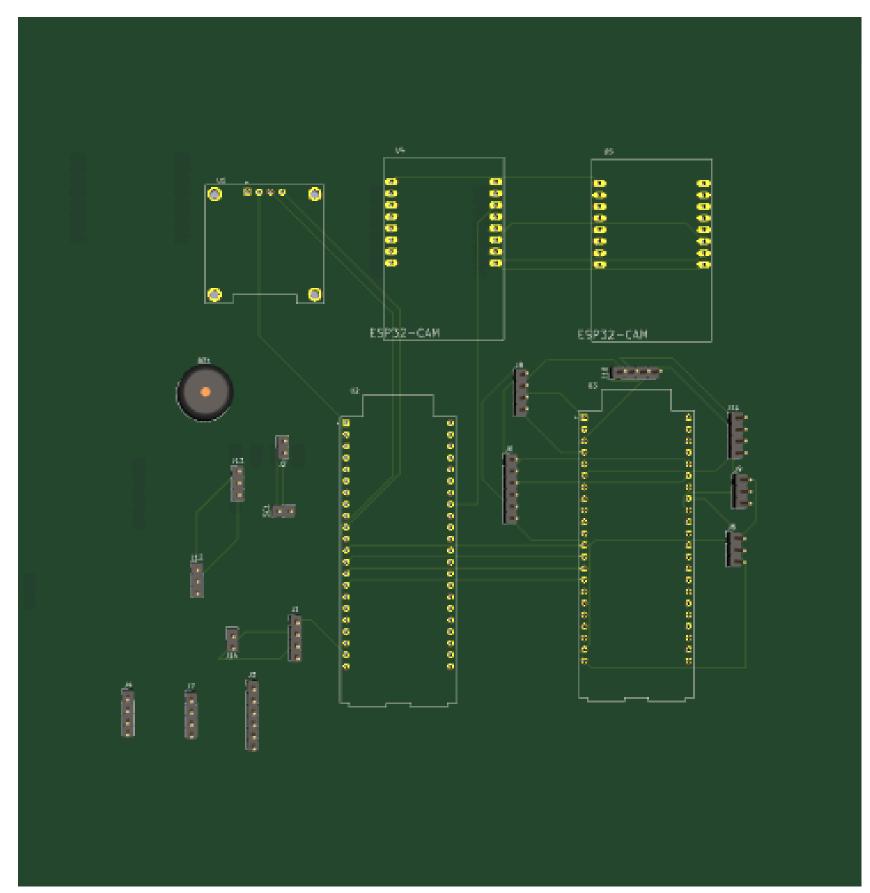




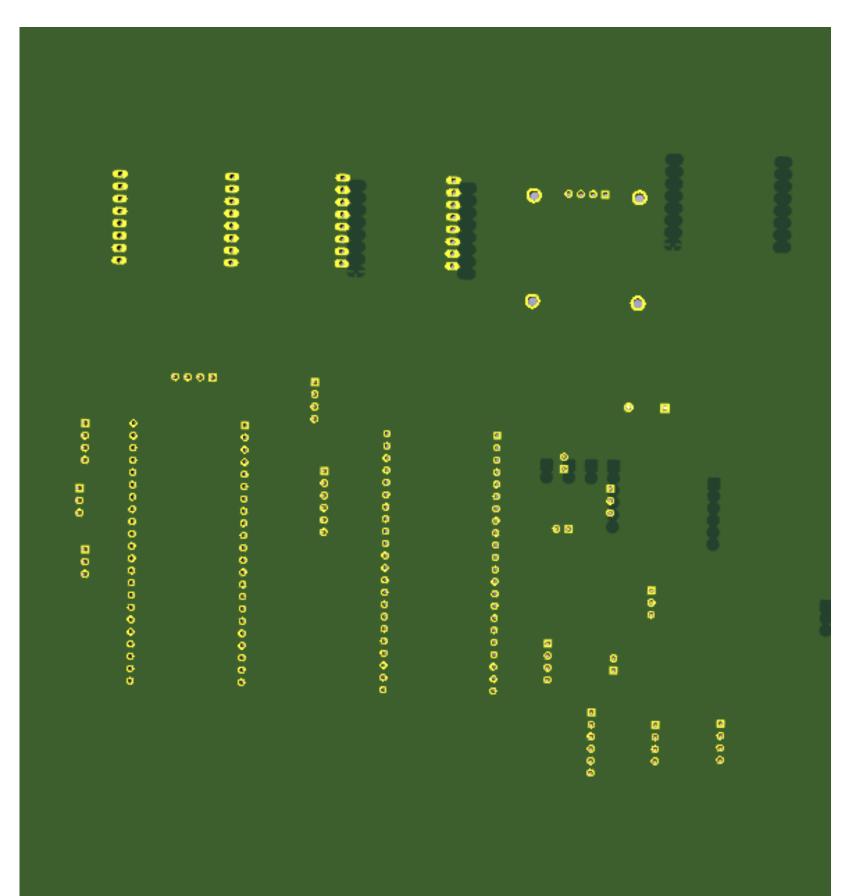


PCB Design





Front Copper Layer



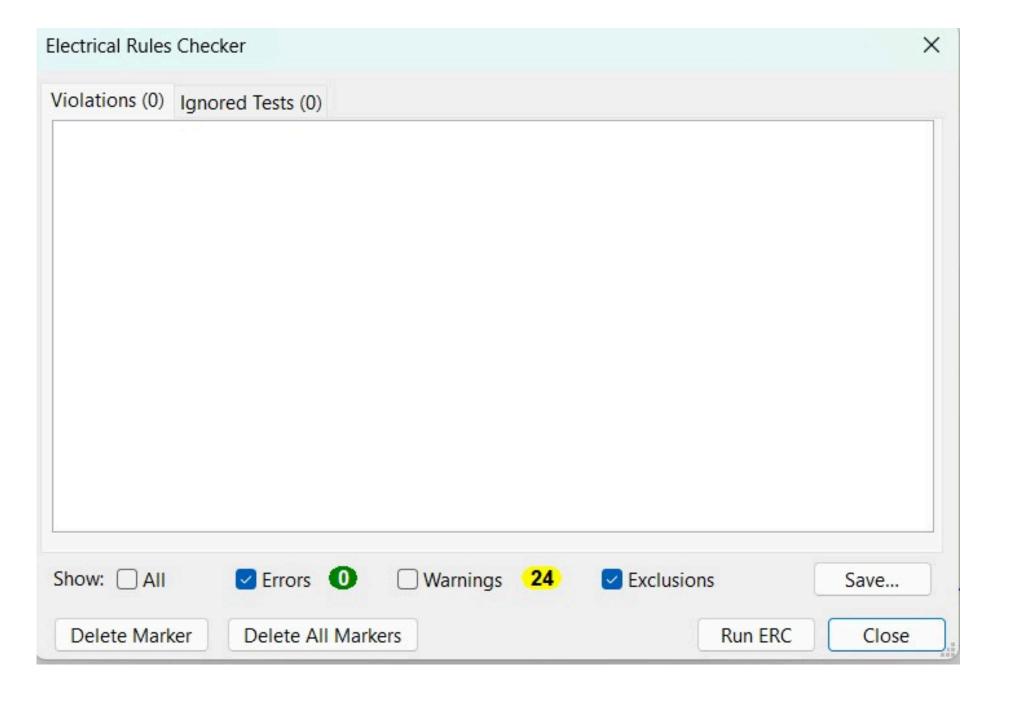
Back Copper Layer



Verification Checks



Electric Rule Check



Design Rule Check

esign Rules Checker		
Refill all zones before performing DRC Report all errors for each track	Test for parity between	n PCB and schematic
Violations (2) Unconnected Items (17) Sche	matic Parity (not run) Ignored 1	Tests (4)
→ Warning: Track has unconnected end		
Track [+5V] on F.Cu, length 4.8790 mm		
∨ Error: Board has malformed outline (no	edges found on Edge.Cuts lay	/er)
PCB		
	Click on items to highlight th	nem on the board.
	Click on items to highlight th	nem on the board.
	Click on items to highlight th	nem on the board.
	Click on items to highlight th	nem on the board.
	Click on items to highlight the	

Casing made for PCB in Fusion 360

