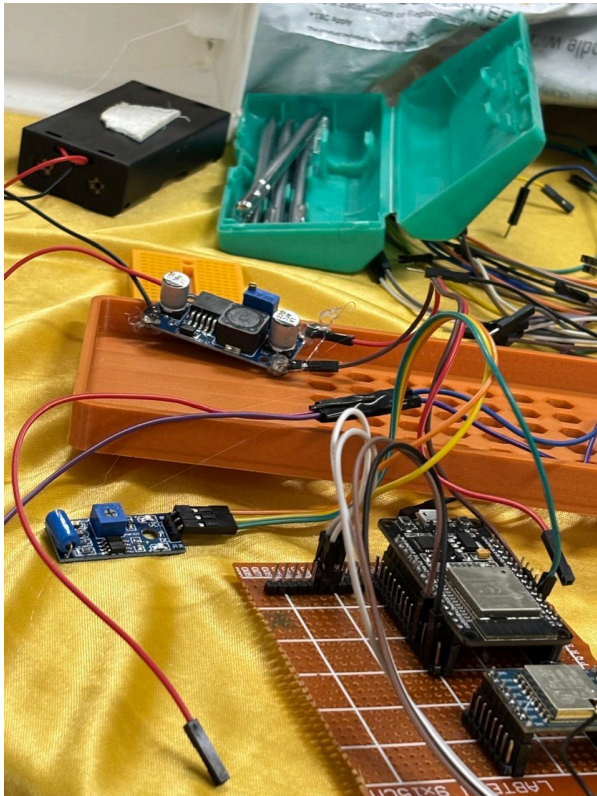


Mounting Transmitter Stack on PCB Board for more modular and clean approach to pin configuration arrangement and placed in 3D printed Transmitter equipment container.



Sensors integrated: vibration Sensor primary indication

MPU6050 secondary indication

Battery Management with voltage sensor and input switches for easier control and manual reset enabling **Low power access** .

Pin configurations are as follows :

Module	Pin	ESP32
LoRa	CS	5
LoRa	RST	14
LoRa	DIO0	26
LoRa	MOSI	23
LoRa	MISO	19
LoRa	SCK	18
OLED	SDA	21
OLED	SCL	22

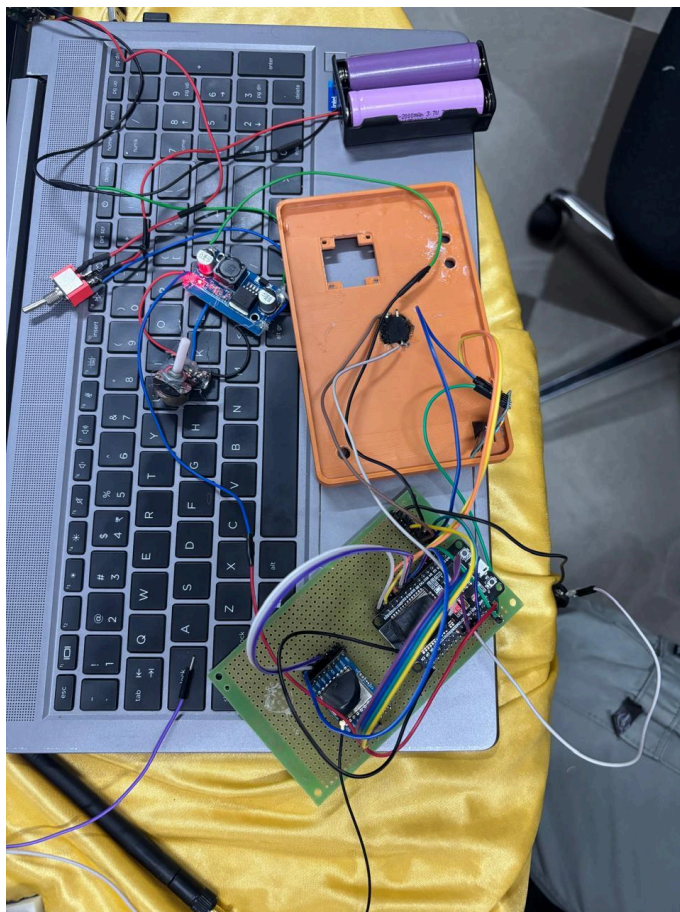
LED (Red)	+	2
LED (Yellow)	+	4
Buzzer	+	27
All GND	-	GND

Tested with Receiver Indicatory hardware stack

Yellow LED: Vibration Alert (indicatory warning for cutting)

RED LED: Complete change in directions normalised to gyroscopic sensor values utilising the x, y, and z axes.

(North, South, East, West)



Receiver Pin Configuration

Module/Part	Pin	ESP32 Pin
LoRa RFM95	CS	5
LoRa RFM95	RST	14

LoRa RFM95	DIO0	26
LoRa RFM95	MOSI	23
LoRa RFM95	MISO	19
LoRa RFM95	SCK	18
OLED	SDA	21
OLED	SCL	22
Red LED	+	2
Yellow LED	+	4
Buzzer	+	27
All grounds	—	GND