Power Distribution board Connections:

Connect GND of 7805 to ground of Arduino nano

Connect GND of output of 7805 (5V) to Vin of Arduino nano

Connect GND of 7805 to Ground of Raspberry pi

12V wire to 12V of L298N

GND wire to GND of L298N

Ultrasonic Connections:

5V of Arduino to VCC ultrasonic sensor

GND of Arduino to GND of ultrasonic sensor

D9 of Arduino to Trigger pin of ultrasonic

D10 of Arduino to Echo pin of ultrasonic

Motor driver (L298N) Connections:

D8 of Arduino to IN1 of L298N

Ground of the power distribution board to IN2

Motor1 terminal to OUT1

Motor2 terminal to OUT2

IN4 to Raspberry pi pin 12

IN3 to GND of Raspi

OUT4 to red pin of the buzzer

OUT3 to blue pin of buzzer

MLX90614 Temp sensor:

VCC to 3v3 of Raspi

GND to GND of Raspi

SDA of to SDA of Raspi Pin3

SCL of to SCL of Raspi Pin5

LED Board:

led1g ->Raspi Pin 29

led1r ->Raspi Pin 31

led2g ->Raspi Pin 19

led2r ->Raspi Pin 21

led3g ->Raspi Pin 11

led3r ->Raspi Pin 13