Schematic: ESP32 (Board1) controlling Board2 power + 2× PIR sensors & LED indicators

+5V (Board2)

Board 1
ESP32 (3.3V logic)

Board 2
External (5V supply)

220Ω   220Ω

Pin 14
(GPIO)

Pin14

Rb1 10k*

Pin 12
(GPIO)

Pin12

Rb2 10k*

T3 (NPN)
Base <- Rb3 (1k)
(Power switch for Board2 GND)

Pin 27
(GPIO) -> T3 base (1k)

T1 (NPN)
Base <- Rb1 (10k*)

T2 (NPN)
Base <- Rb2 (10k*)

Pin 4
(PIR1 OUT)

Rb3 1k

Pin27

Pin 16
(PIR2 OUT)

T3 E -> ESP GND
T3 C -> BOARD2 GND

GND (Board2) -> through T3 collector to ESP GND

ESP GND

PIR1 OUT -> Pin4 (jumper)

PIR2 OUT -> Pin16 (jumper)

PIR1
VCC=5V
GND

PIR2
VCC=5V
GND

Notes:
- This drawing follows your wiring: Rb1=10k, Rb2=10k (as specified), Rb3=1k.
- Recommended improvements: use Rb1/Rb2 = 2.2k–4.7k for stronger drive (optional).
- PIR modules powered at 5V; their OUT signals are jumpered to ESP32 GPIOs (Pin4, Pin16).
- Ensure ESP GND and BOARD2 GND are connected through T3 (T3 sinks Board2 GND when ON).
- If PIR OUT can reach 5V, add a level shifter or simple resistor divider to protect ESP32 GPIOs.
- T1/T2 configured as low-side NPN switches (collector receives LED load, emitter to GND).

Red LED1
(220Ω) -> GND

Red LED2
(220Ω) -> GND