

Activity 1:

```
garrett@PiStudent7 ~-> pinout
Description      : Raspberry Pi 5B rev 1.0
Revision         : c04170
SoC              : BCM2712
RAM              : 4GB
Storage          : MicroSD
USB ports        : 4 (of which 2 USB3)
Ethernet ports   : 1 (100Mbps max. speed)
Wi-Fi            : True
Bluetooth        : True
Camera ports (CSI) : 2
Display ports (DSI) : 2
```



```
J8:
3V3 (1) (2) 5V
GPIO2 (3) (4) 5V
GPIO3 (5) (6) GND
GPIO4 (7) (8) GPIO14
GND (9) (10) GPIO15
GPIO17 (11) (12) GPIO18
GPIO27 (13) (14) GND
GPIO22 (15) (16) GPIO23
3V3 (17) (18) GPIO24
GPIO10 (19) (20) GND
GPIO9 (21) (22) GPIO25
GPIO11 (23) (24) GPIO8
GND (25) (26) GPIO7
GPIO8 (27) (28) GPIO1
GPIO5 (29) (30) GND
GPIO6 (31) (32) GPIO12
GPIO13 (33) (34) GND
GPIO19 (35) (36) GPIO16
GPIO26 (37) (38) GPIO20
GND (39) (40) GPIO21

J2:
RUN (1)
GND (2)

J7:
COMPOSITE (1)
GND (2)

J14:
TR01 TAP (1) (2) TR00 TAP
TR03 TAP (3) (4) TR02 TAP
```

5V Power: Physical Pins 2 and 4. Supplies 5V to anything connected to it

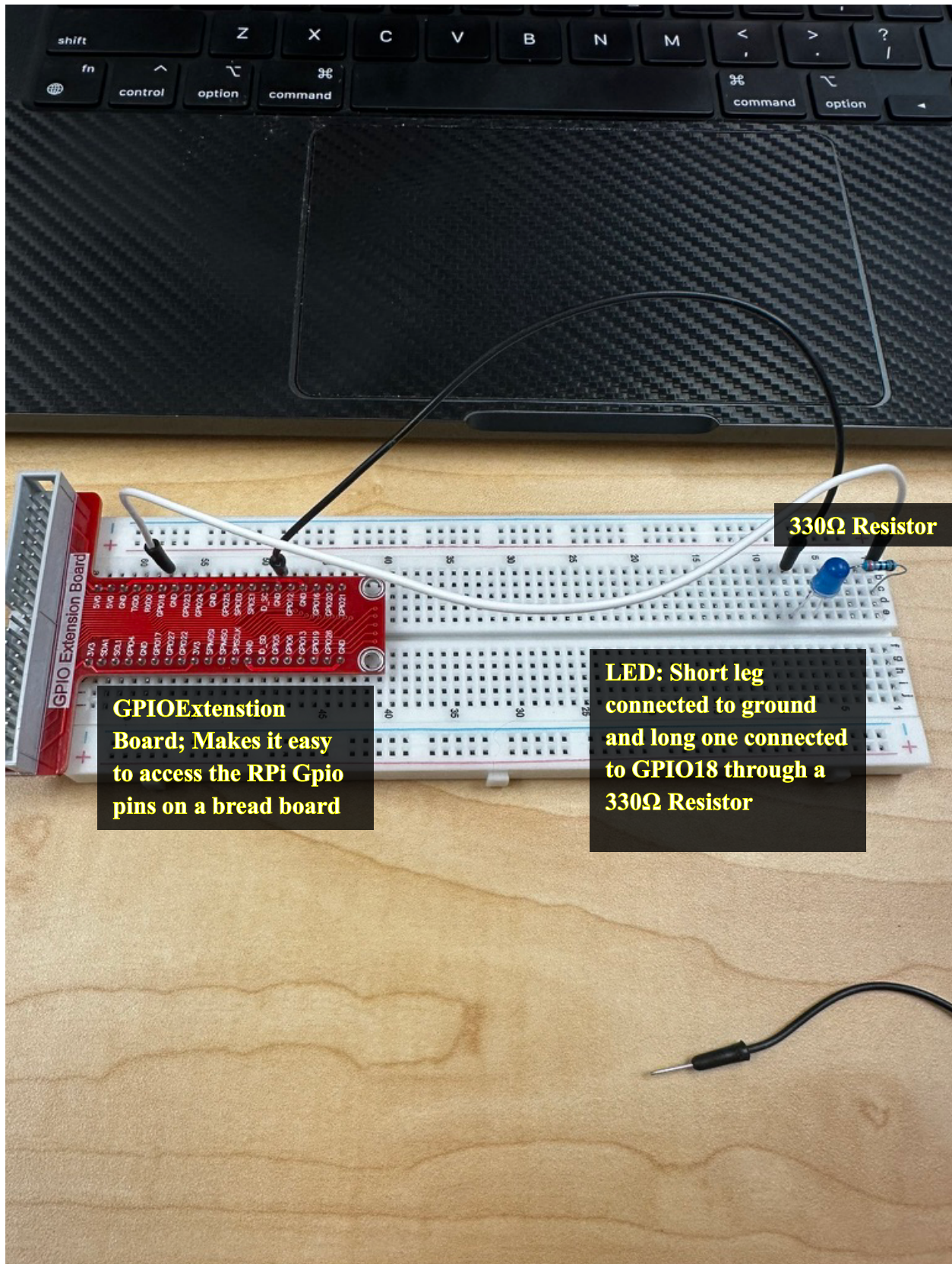
3.3V Power: Physical Pins 1 and 17. Supplies 3.3V to anything connected to it

Ground: Physical Pins 6, 9, 14, 20, 25, 30, 34, 39. Connects the ground to the ground of your circuit and need to receive signals from pi so whole circuit is on a common ground.

GPIO18: Physical Pin 12. It is used by PCM to provide a clock signal for audio devices that use PCM. Can also function as regular Input and Output pin.

GPIO17: Physical Pin 11. A simple Input and Output pin that can be controlled by the PI.

Activity 2:



Activity 3:

Skipped RPi.GPIO Doesn't work with my Pi5

Activity 4:

See Attached Files