**Solar Panel**

RED ---🡪TP5100 +

BLK-----> TP5100 –

**TP5100**

+ -----> battery (+)

- -----> battery (-)

Under +- connection going to Down buck converter

**18650 Battery**

**+** -----> XL6009 (+)

- -----> XL6009 (-)

**XL6009 set to 5.2V**

+ -----> ESP32 VIN

– -----> ESP32 Common ground

**ESP 32 + Buzzer + Solar Panel + LDR + LCD**

**LDR**  
1leg ----🡪 GPIO 35

1leg2----🡪 3.3v

**Resistor 10k**

1leg = leg1 LDR

Leg 1 = Common grnd (brown)

**BUZZER**

RED = GPIO12

BLK = common GND

**LCD I2C -------🡪 ESP32**

GND ---------🡪 Common GND ( Blue)

VCC---------🡪 Solar Panel down controlled 6v to 5v

SDA --------🡪 GPIO21 (Orange)

SCL --------🡪 GPIO22 (Yellow)