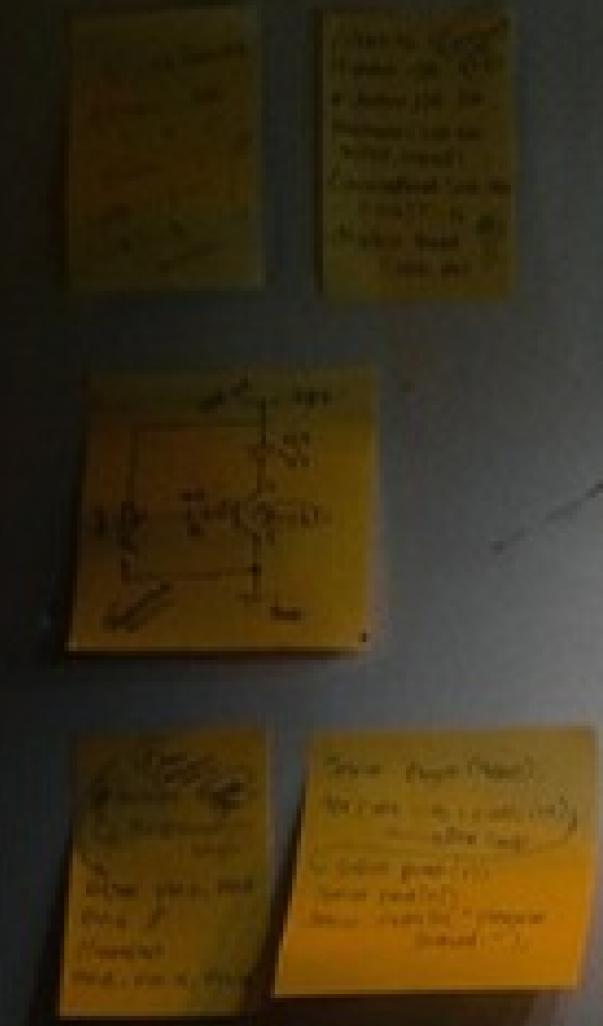


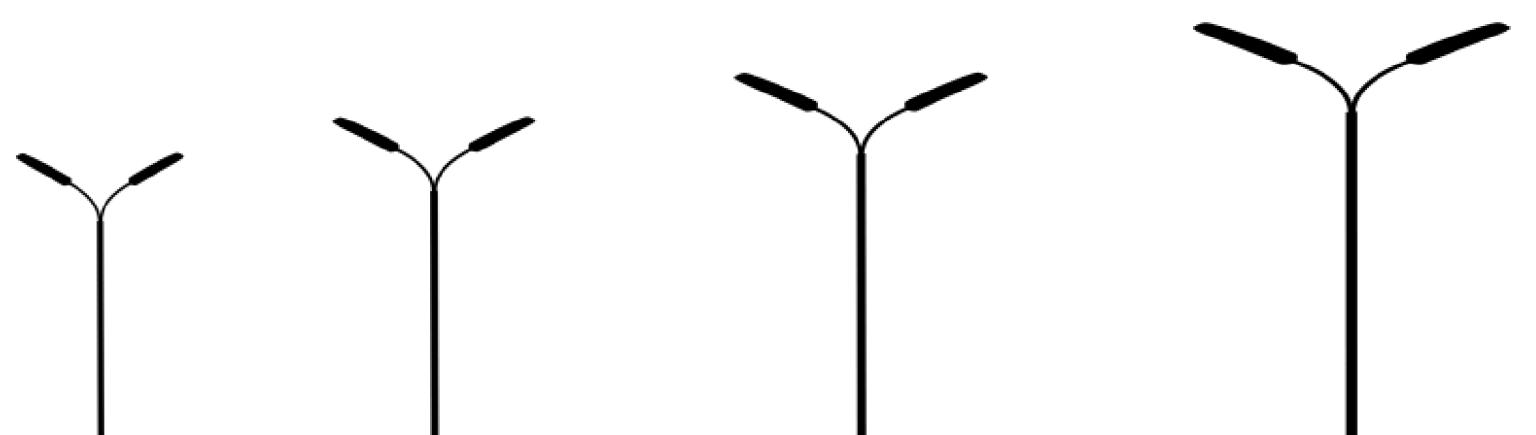
CREATIVE  
THINKER



\*ADAPTIVE SMART LIGHTING  
SYSTEM WITH DAY/NIGHT &  
MOTION-BASED INTENSITY CONTROL

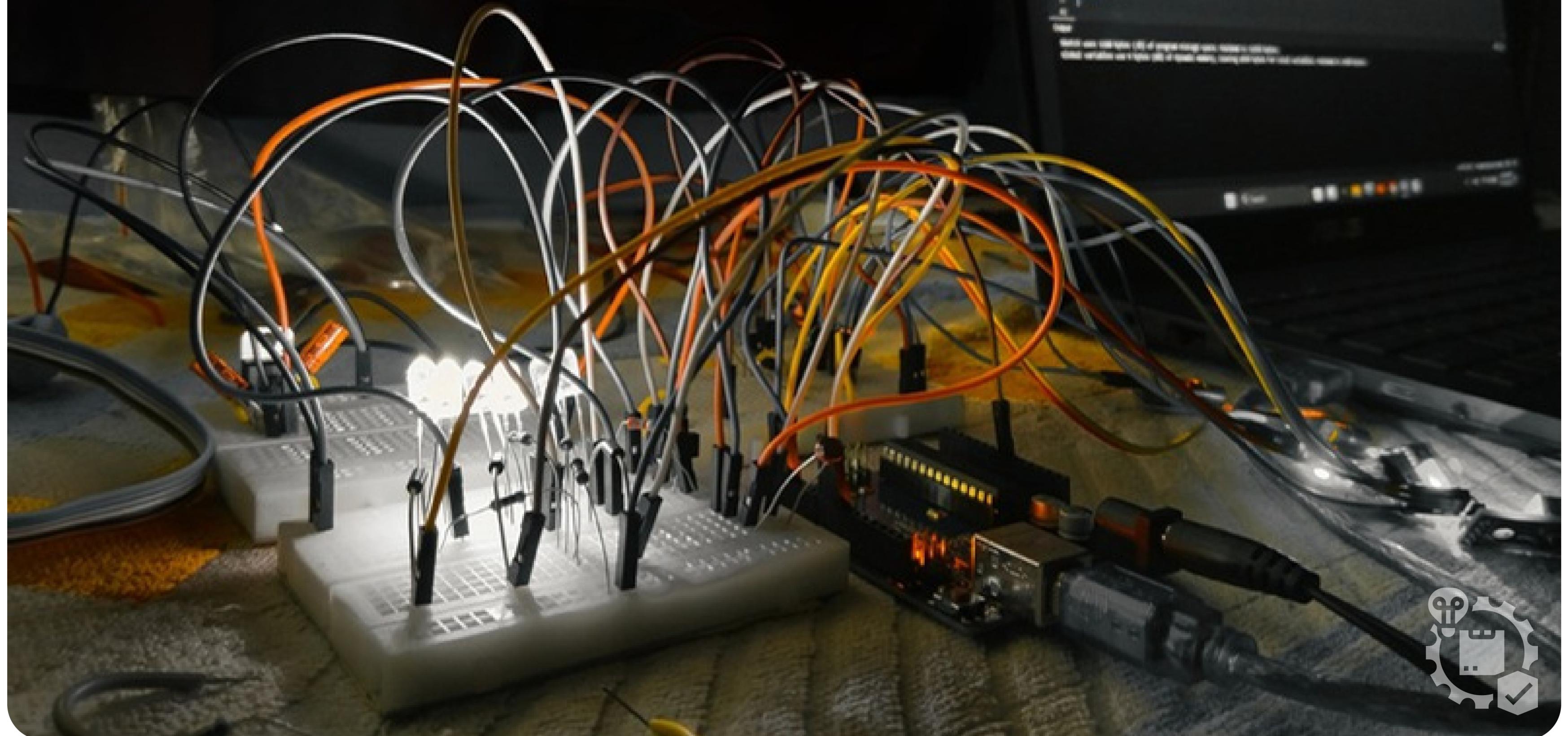
# OBJECTIVE

- Implementing an energy-efficient lighting strategy by adjusting lighting levels based on ambient light and motion detection to reduce energy consumption effectively.
- Enhancing safety and security through improved visibility for pedestrians and drivers, thereby reducing accidents and deterring criminal activities.
- Achieving cost efficiency by lowering electricity and maintenance expenses through controlled illumination and extended fixture lifespan.
- Contributing to environmental sustainability by decreasing the carbon footprint with reduced energy use and the adoption of energy-efficient LED lighting technologies.
- Incorporating automation and smart control systems to monitor ambient light and motion for real-time adjustments, eliminating the need for manual intervention.

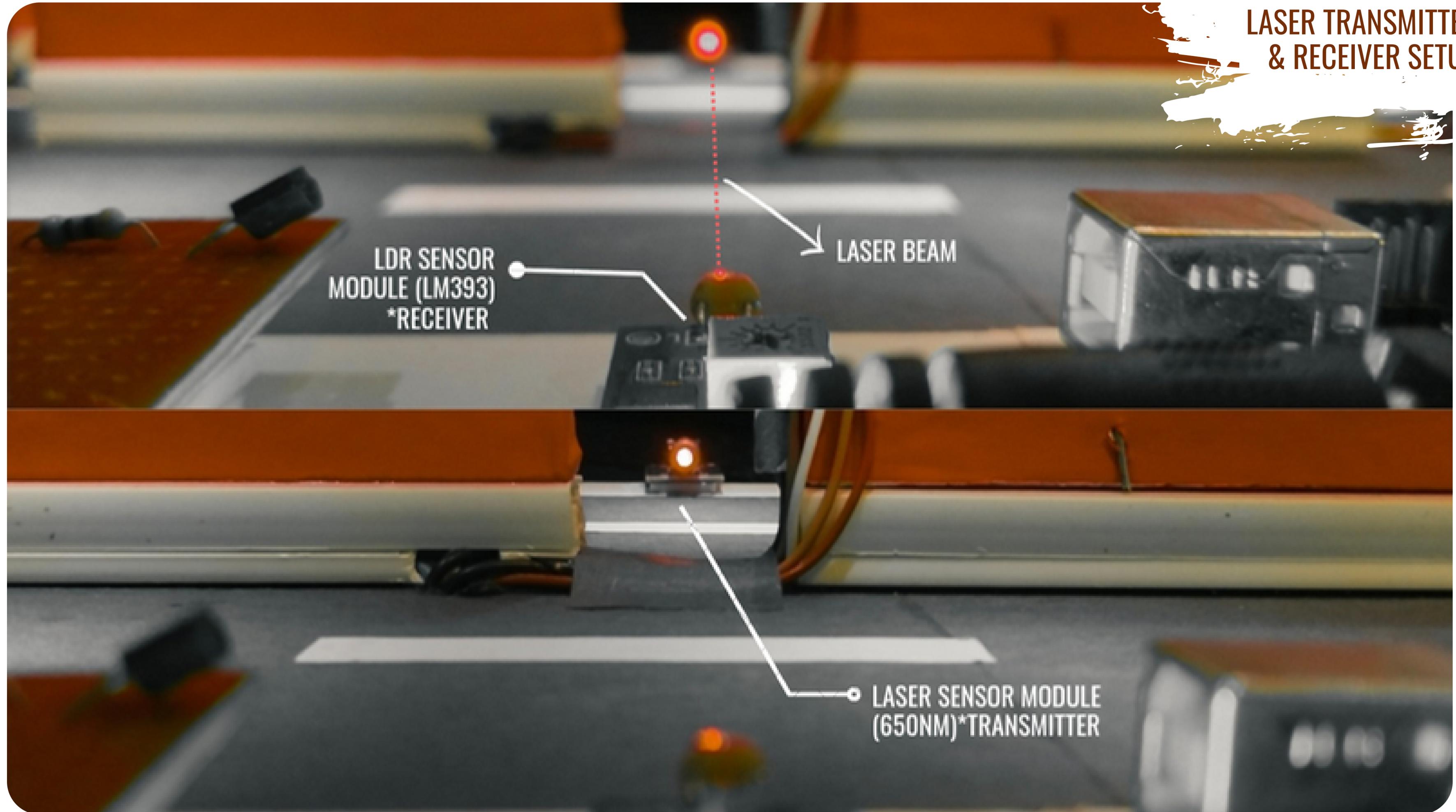


INITIAL  
PROTOTYPING

PROTOTYPE



# LASER TRANSMITTER & RECEIVER SETUP



CUSTOMIZED SOLDERED  
PCB BOARD

CAPACITOR~1uF

NPN TRANSISTOR  
(BC547)

1K-RESISTOR

VOLTAGE  
REGULATOR  
(LM7805)

## DEMO CONSIDERATION

For the prototype, Day light is considered as an LED



| DURING DAY LIGHT



ON CONDITION

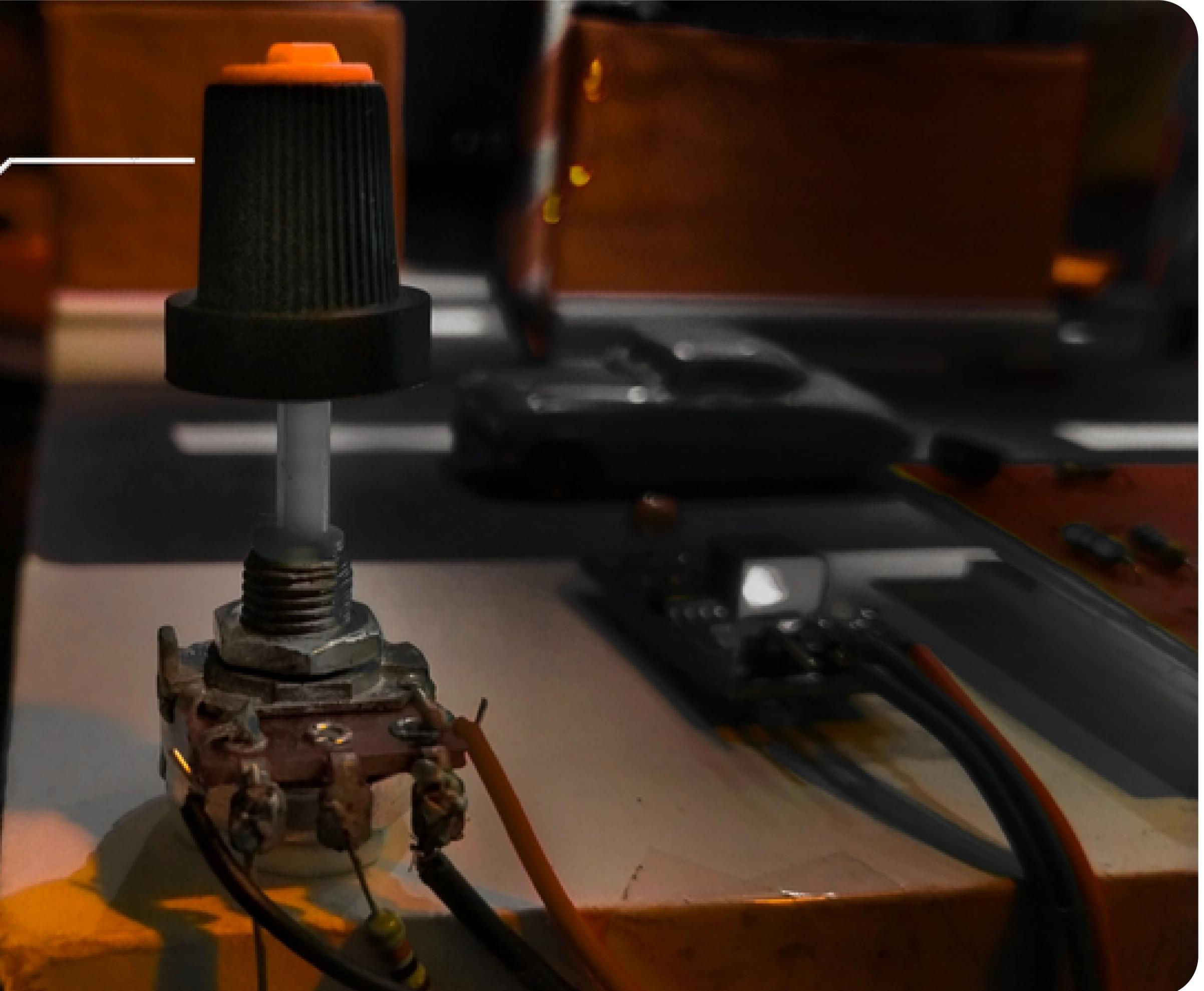
OFF CONDITION

3V - POWER LED



## 1V~POTENTIOMETER

\*Manual control to activate /deactivate  
the day light





THANK  
YOU