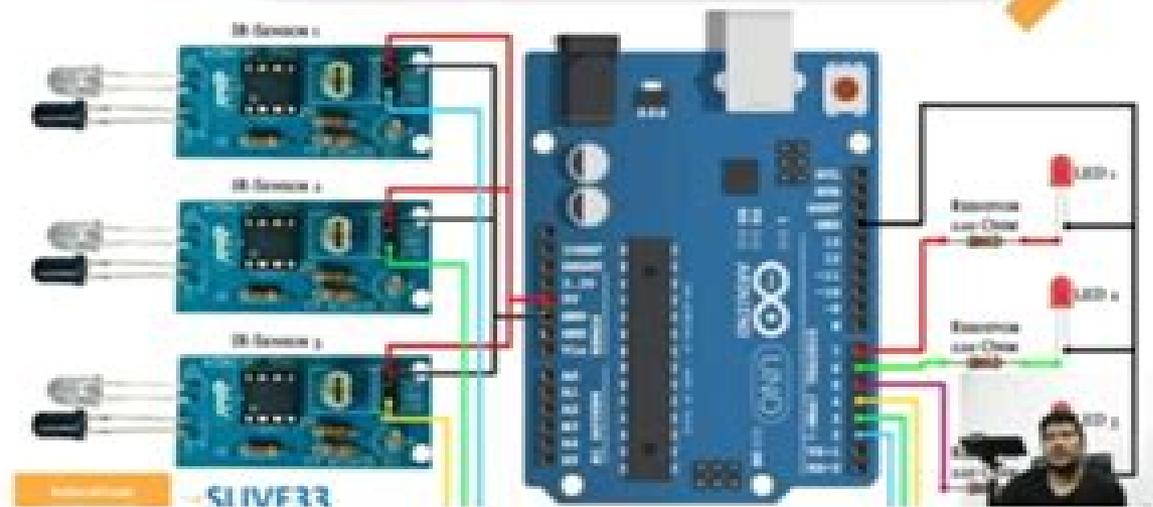


Smart Street Light System Circuit



A. Components Required:

- 1) Arduino board (e.g., Arduino Uno)
- 2) IR sensor module (e.g., IR proximity sensor)
- 3) Relay module
- 4) Street light or LED module
- 5) Connecting wires

B. Circuit Connections

- 1) Connect the VCC pin of the IR sensor to the 5V pin on the Arduino.
- 2) Connect the GND (ground) pin of the IR sensor to the GND pin on the Arduino.
- 3) Connect the OUT pin of the IR sensor to a digital pin (e.g., pin 2) on the Arduino.
- 4) Connect the VCC pin of the relay module to the 5V pin on the Arduino.
- 5) Connect the GND pin of the relay module to the GND pin on the Arduino.
- 6) Connect the IN pin of the relay module to a digital pin (e.g., pin 3) on the Arduino.
- 7) Connect the relay module's COM (common) pin to the positive terminal of the street light or LED module.
- 8) Connect the relay module's NO (normally open) pin to the negative terminal of the street light or LED module.
- 9) Upload the code to the Arduino board using the Arduino IDE or any compatible software.
- 10) Upload the code to the Arduino board using the Arduino IDE or any compatible software.

Automatic Street Light Control System Using Microcontroller

Robert R. Redfield



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