

# Automatic Street Light System Project Report

## Project Title:

Automatic Street Light System (Without Arduino)

## Objective:

To design and construct an automatic street light system that activates in low light conditions without using a microcontroller. This project utilizes semiconductor components to detect ambient light levels and automatically switch on/off street lights.

## Introduction

Automatic street lights are energy-efficient lighting systems designed to reduce manual control. These systems use sensors to automatically control the street lights based on ambient light conditions. By turning lights on at dusk and off at dawn, they save energy and reduce costs. This project explores a simple, reliable method using semiconductor physics to automate street lighting without a microcontroller, focusing on the behavior of a Light Dependent Resistor (LDR) and a transistor circuit.

## Principle of Operation

The circuit utilizes an LDR and a transistor-based switching circuit. The resistance of the LDR decreases with an increase in light intensity, allowing it to act as a light sensor. In the circuit, when it gets dark, the LDR resistance increases, and a transistor is triggered, turning on the light. As dawn approaches and ambient light increases, the LDR's resistance decreases, turning off the transistor and thereby turning off the light.

## Components Used

### Light Dependent Resistor (LDR)

Senses ambient light. Resistance increases in darkness and decreases in light, which helps control the flow of current in the circuit. The photoconductive effect of semiconductors is utilized in LDR, where light energy causes changes in electrical resistance.

### Transistor (NPN, e.g., BC547 or BC548)

Acts as an electronic switch. The transistor is in an 'off' state when light is detected by the LDR and in an 'on' state in the dark, allowing current to pass to the light source. The transistor's properties enable it to act as a switch, amplifying current from the base to the collector-emitter pathway when triggered by LDR resistance changes.

### Relay (5V or 12V, depending on the circuit)

Switches the main power to the street light. The relay is driven by the small current in the transistor circuit, which switches the larger current required by the light source.

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**Jessica J Manson**



### **Automatic Night Light Project Report:**

*Engineering Education for the 21st Century* Dan Budny,1995      Annual Report United States. Light-House Board,1902  
*Federal Register* ,1974      **Scientific and Technical Aerospace Reports** ,1976 Lists citations with abstracts for  
aerospace related reports obtained from world wide sources and announces documents that have recently been entered into  
the NASA Scientific and Technical Information Database      Illuminating Engineering ,1957      *Electric Light and Power*  
,1943      *The Coast Artillery Journal* ,1924      The Journal of Gas Lighting, Water Supply & Sanitary Improvement ,1902  
**Engineering and Cement World** ,1923      **Engineering World** ,1923      **Engineering Record** ,1916      **Foreign**  
**Commerce Weekly** ,1947      **Electrical Review** ,1919      **Industrial Engineering** George Worthington,1919  
**Municipal Journal and Public Works** ,1899      City Government ,1899      **Pacific Service Magazine** ,1921  
**Electrical World** ,1897      The Electrical Engineer ,1902      **Transit Journal** ,1924

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