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SKU: PH_EP_123

Price: ₹224.00 Original price was: ₹224.00.₹132.00
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Stock: instock

Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

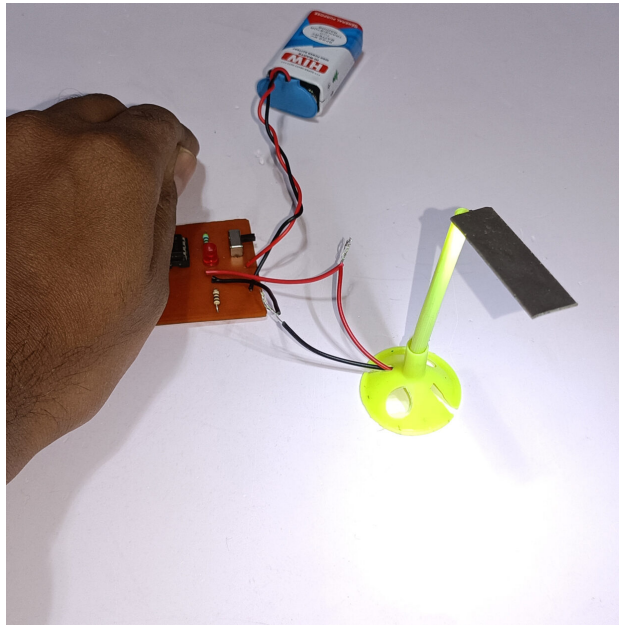
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Price: ~~₹396.00~~ Original price was: ₹396.00. ₹234.00
Current price is: ₹234.00.

Stock: instock

Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

Product Description

INTRODUCTION:

The aim of this project is to design and implement an automatic street light system using the IC555 timer, Light Dependent Resistor (LDR), and a 4V LED strip. The project utilizes the IC555 timer as a control unit to detect the ambient light level using the LDR and automatically switch the LED strip on or off accordingly. This system offers an energy-efficient and convenient solution for street lighting, ensuring that the lights are turned on only when it is dark.

WHY WE NEED AUTOMATIC STREET LIGHT CONTROLLER?

The need for an automatic street light system using IC555 arises due to several reasons:

1. **Energy Efficiency:** Traditional street light systems often operate on a fixed schedule or rely on manual switching, resulting in unnecessary energy consumption during daylight or low-traffic periods. An automatic street light system using IC555 and an LDR ensures that the lights are turned on only when ambient light levels are low, effectively saving energy.
2. **Cost Reduction:** By minimizing energy wastage, the automatic street light system helps reduce electricity bills and operating costs for street lighting. The use of low-voltage LED strips further contributes to cost savings due to their energy-efficient nature.
3. **Convenience and Safety:** Manual control of street lights can be inconvenient and impractical, especially in larger areas or during unexpected changes in daylight conditions. The automatic system eliminates the need for manual intervention, ensuring that the lights are always appropriately illuminated during dark hours. This enhances safety for pedestrians and drivers, reducing the risk of accidents or criminal activities.
4. **Environmentally Friendly:** With a focus on energy conservation, the automatic street light system aligns with sustainable practices and environmental considerations. By reducing unnecessary energy consumption, it helps lower carbon footprint and contributes to a greener and more eco-friendly urban infrastructure.
5. **Scalability and Adaptability:** The IC555-based automatic street light system can be easily scaled and adapted to various urban, suburban, and rural environments. It can be

integrated into existing infrastructure without major modifications, making it a flexible solution for different lighting requirements.

6. **Maintenance Efficiency:** Traditional street light systems often require regular manual inspections to identify faulty or non-functioning lights. With the automatic system, the lights are monitored and controlled automatically, allowing for proactive maintenance and reducing the need for frequent manual checks.

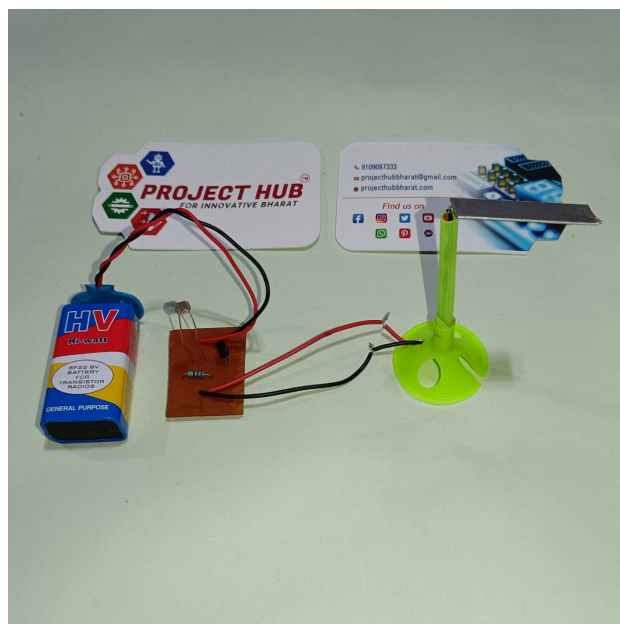
In summary, the automatic street light system using IC555 offers energy efficiency, cost reduction, convenience, safety, environmental benefits, scalability, and maintenance efficiency. It addresses the shortcomings of traditional street lighting methods and provides an intelligent and automated solution for effective and efficient illumination of public spaces.

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SKU: PH_EP_124

Price: ~~₹220.00~~ Original price was: ₹220.00.₹130.00
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Stock: instock

Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

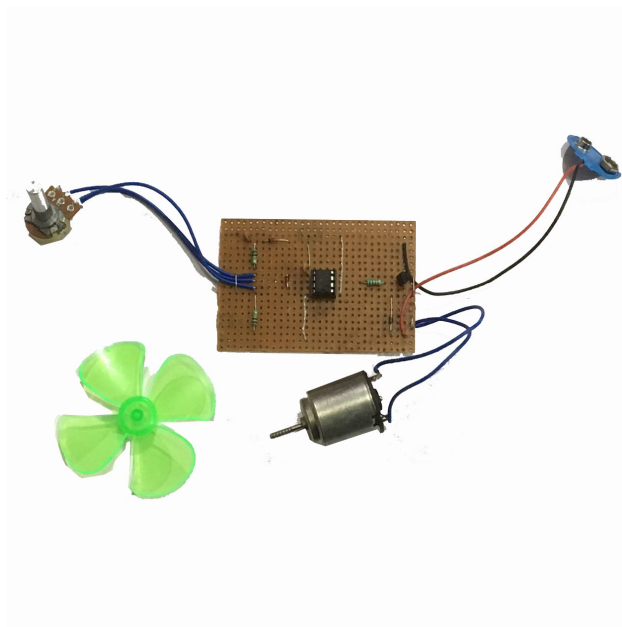
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DC motor speed controller with PWM

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SKU: PH_EP_093

Price: ₹480.00 Original price was: ₹480.00. ~~₹430.00~~
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Door Opening Sensor

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Delivery Time

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Price: ~~₹420.00~~ Original price was: ₹420.00.₹248.00
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SKU: PH_EP_125

Price: ~~₹332.00~~ Original price was: ₹332.00.₹196.00
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Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

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Price: ~~₹200.00~~ Original price was: ₹200.00. ₹118.00
Current price is: ₹118.00.

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SKU: PH_EP_043

Price: ₹460.00 Orig
Current price is: ₹2

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SKU: PH_EP_132

Price: ₹240.00 Original price was: ₹240.00. ₹142.00
Current price is: ₹142.00.

Stock: instock

Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

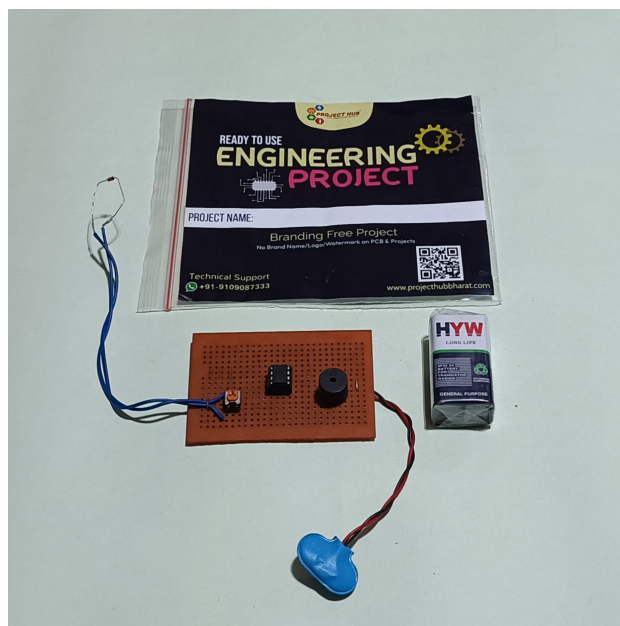
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Fire Alarm

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SKU: PH_EP_091

Price: ₹360.00 Original price was: ₹360.00. ₹212.00
Current price is: ₹212.00.

Stock: instock

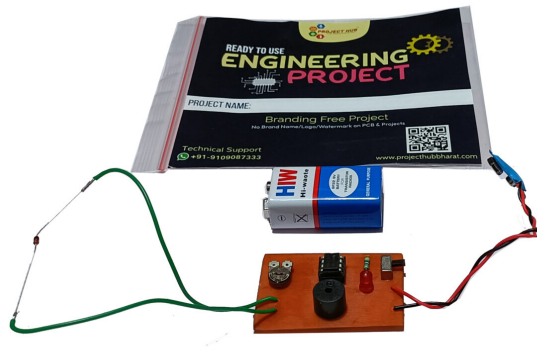
Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#), [Security](#)

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Fire Alarm PCB

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SKU: PH_EP_022

Price: ~~₹384.00~~ Original price was: ₹384.00.₹227.00
Current price is: ₹227.00.

Stock: instock

Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

Product Description

INTRODUCTION:

The fire alarm project is a safety device designed to detect and alert individuals in the event of

a fire outbreak. This project utilizes the IC 555 timer, a widely used integrated circuit, in conjunction with a buzzer, 9V battery, and a 1N4148 Zener diode acting as a heat sensor. The system works by monitoring changes in temperature and triggering an alarm when the temperature exceeds a predefined threshold, indicating the presence of fire or excessive heat.

ADVANTAGES:

- Cost-effective solution for fire detection.
- Simple circuit design using easily available components.
- Portable and battery-powered, allowing it to be used in various settings.
- Provides an immediate audible alert to warn occupants of potential danger.
- Can be integrated into larger fire safety systems.

APPLICATIONS:

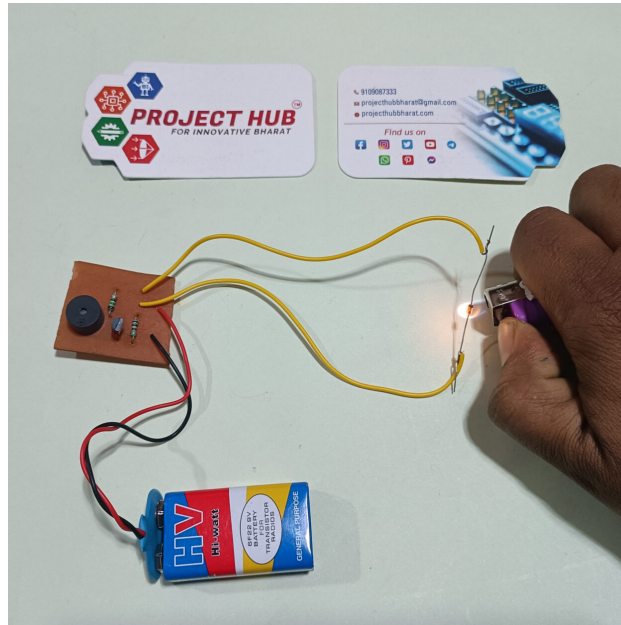
- Residential buildings: Houses, apartments, and dormitories.
- Offices and commercial spaces.
- Industrial facilities and warehouses.
- Educational institutions: Schools, colleges, and universities.
- Public places: Theatre's, shopping malls, and airports.
- Any location where early fire detection is crucial for safety.

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Price:

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Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

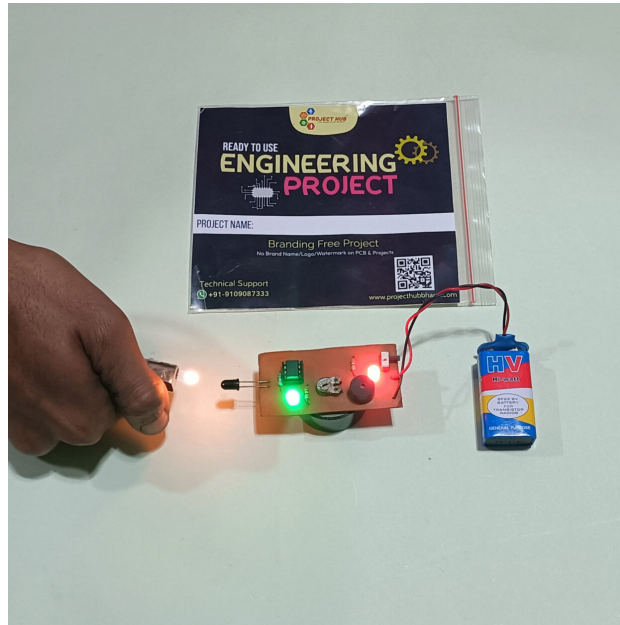
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SKU: PH_EP_045

Price: ₹400.00 Orig
Current price is: ₹2

Stock: instock

Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

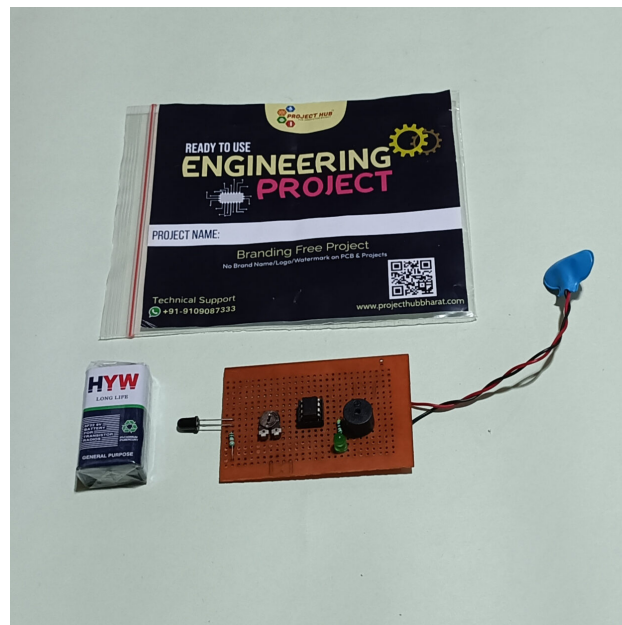
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SKU: PH_EP_092

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Current price is: ₹227.00.

Stock: instock

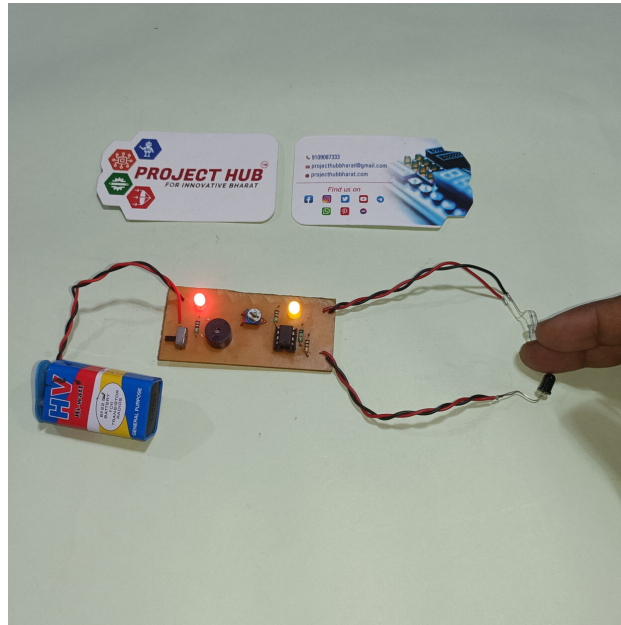
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SKU: PH_EP_085

Price: ₹436.00 Orig
Current price is: ₹2

Stock: instock

Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

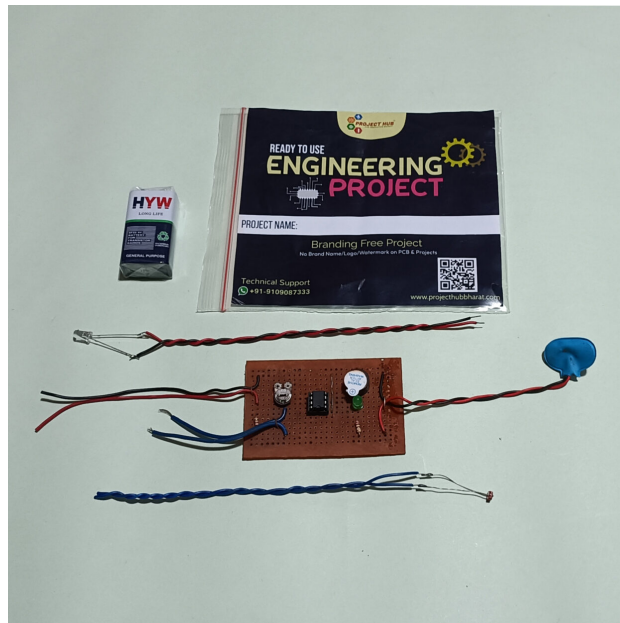
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LASER Security System
Based Security System
Dotted/multi-point

Package Includes

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SKU: PH_EP_087

Price: ~~₹392.00~~ Original price was: ₹392.00. ₹231.00
Current price is: ₹231.00.

Stock: instock

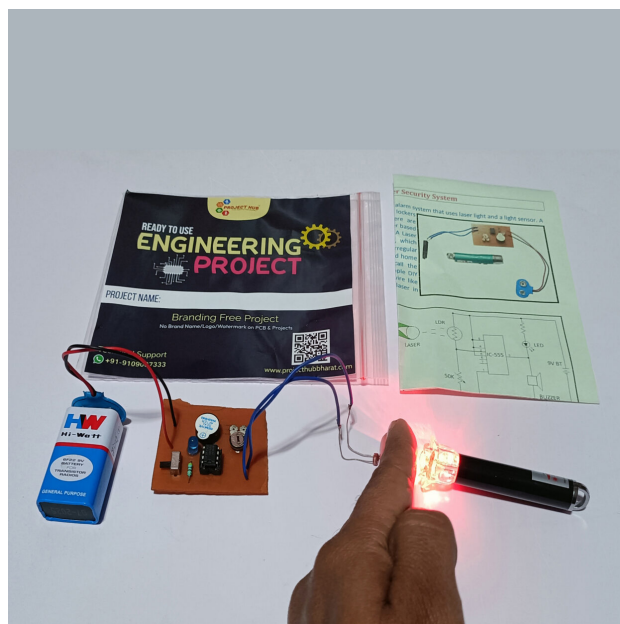
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LASER Security System 555 timer

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SKU: PH_EP_005

Price: ₹552.00 Original price was: ₹552.00. ₹326.00
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Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

Tags: [Alarm System](#), [DIY Project](#), [Electrical engineering project](#), [Electronics](#), [Electronics engineering](#), [Laser Technology](#), [mini projects](#), [minor project for electronics students](#), [security system](#)

Product Description

Abstract:

A laser alarm system operates by projecting a beam of invisible laser light across a doorway or window opening. When the light is broken, it activates a buzzer or alarm. The principles are very similar to those of lower tech burglar alarms.

Theory:

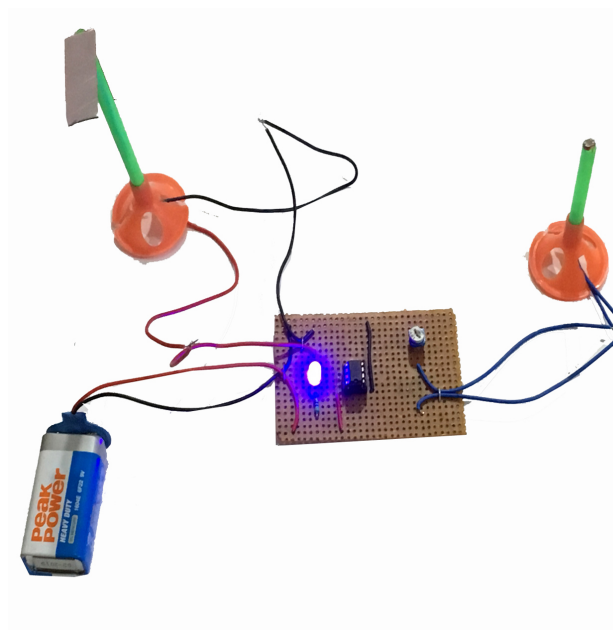
This system for security uses the combination of LASER light and LDR. The LDR module has an onboard potentiometer to adjust the sensitivity of LDR, so that it only senses laser light falling onto it. The concept is quite simple and similar to what we see in movies where antique, priceless ornaments are protected under laser lights. As someone crosses these lights, an alarm runs on to indicate unauthorized presence. This project works similarly. In normal conditions, where there is always laser light falling on the LDR, the LDR module always gives a high signal to integrated circuit . When someone crosses this laser light, it will behave as an obstruction between the LDR module and laser light, resulting in no light falling on LDR. In such cases LDR module gives a low signal to the integrated circuit, which indicates it to switch on an alarm.

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Working Video:

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LDR Sensor Street Light Use Kit on D PCB board

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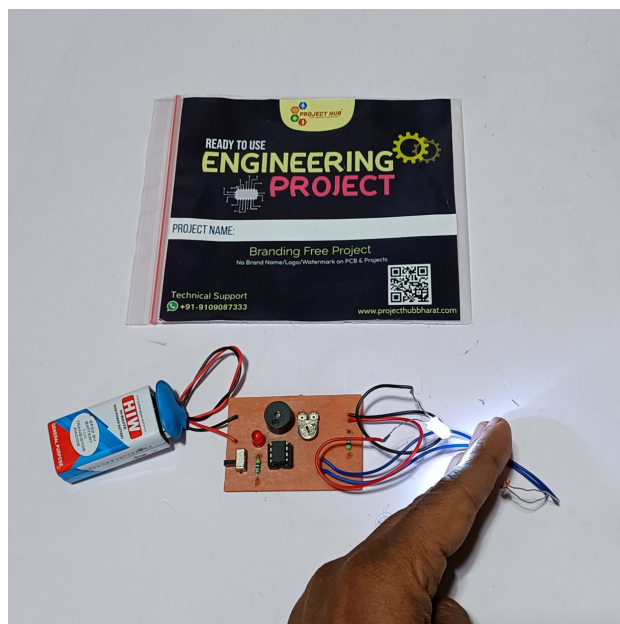
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LED & LDR

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Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

Product Description

INTRODUCTION:

An LED (Light Emitting Diode) and LDR (Light Dependent Resistor) based laser security system is a simple yet effective way to detect intrusion or unauthorized access to a specific area. While it's not an actual laser system, it can mimic the functionality by using an LED as a light source and an LDR to detect changes in the light intensity. To create an LED and LDR based laser security system using an IC555 timer, we can design a circuit that utilizes the timer's functionalities to generate a modulated light signal and detect any interruption using the LDR

AIM:

The aim of this project is to design and implement a laser security system using readily available components such as LEDs, LDRs, and an IC555 timer. The system should be capable of detecting and alerting against intrusions or unauthorized access to a specific area. The LED and LDR based laser security system using an IC555 timer is a project aimed at creating a cost-effective and easily implementable security system. This system detects intrusions or unauthorized access to a specific area by using an LED as a light source, an LDR to detect changes in light intensity, and an IC555 timer to generate a modulated light signal.

PRINCIPLE:

The principle behind this project lies in the interruption of a modulated light signal and the detection of changes in light intensity by the LDR. The IC555 timer is configured as an astable multivibrator, generating a continuous square wave signal that modulates the LED's light intensity. The LDR, placed in the path of the modulated light, detects changes in light intensity caused by an intrusion. These changes in intensity are then processed to trigger an alarm or alert.

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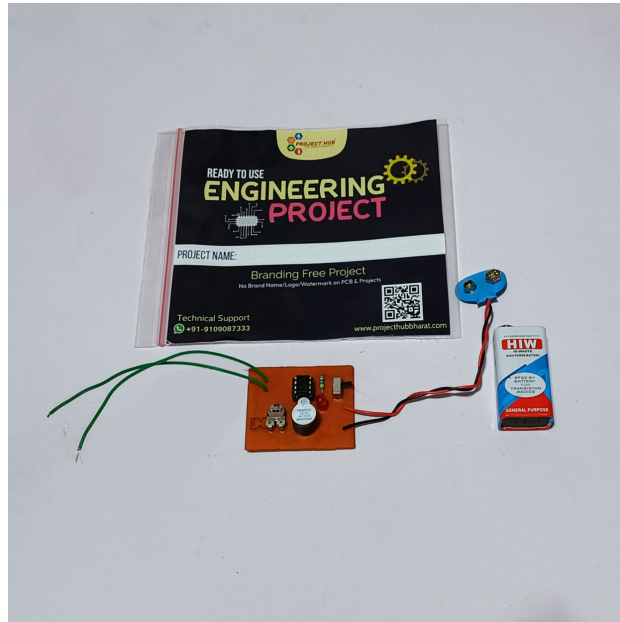
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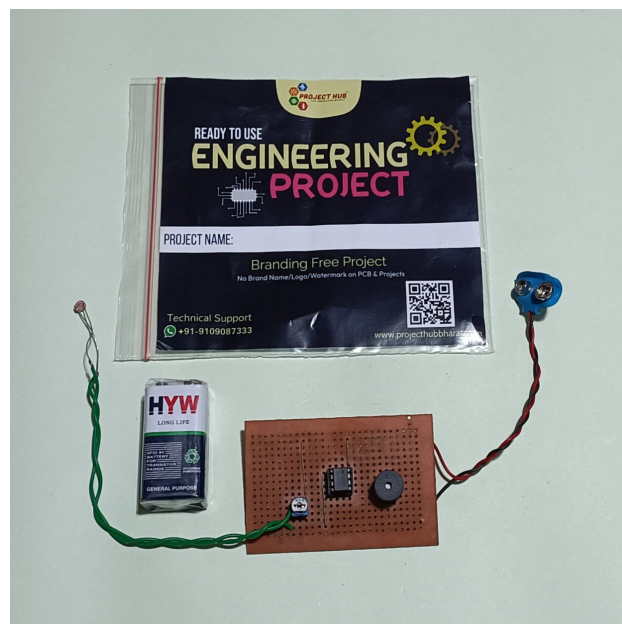
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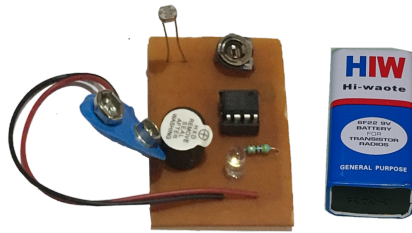
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Categories: [Engineering project](#), [IC & Transistor](#), [Mini Project](#), [Projects](#)

Product Description

ABSTRACT:

Waking up in the morning is quite a task for many people. The aim of this project is to build an alarm clock which will help people go get up a little bit easier. Additionally if one forgets to set alarm at night, this alarm will turn on automatically in the morning and only turn off manually so you will have to wake up.

INTRODUCTION:

The Morning Alarm project aims to create a simple and effective alarm system using components such as an LDR (Light Dependent Resistor), IC 555 Timer, 9V Battery, Buzzer, LED, and a 100K preset resistor. This project serves as an alarm clock that can be used to wake up individuals at a desired time. By utilizing light sensing capabilities, the alarm can be triggered based on the ambient light conditions, simulating a natural sunrise effect.

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