

# **Based on 51 microcontroller light-seeking module**





## Overview

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The modules used in the system include AT89C51 microcontroller + LCD1602 display screen + photoresistor module + ADC0832 + small light. This design mainly includes a brief introduction of the system background and design significance, and then describes the overall scheme of the system, through the selection of devices to achieve the optimal device selection, circuit hardware design, and finally complete the system software writing. 51 single chip microcomputer allows the crystal oscillator to be selected between 1. Capacitors C1 and C2 are used to stabilize the oscillation frequency and start up quickly. This text directs against the power consuming wasting phenomenon of public place, regard AT89C51 as the core, propose a measurement for Pyroelectric infrared sensor and light combination of intelligent lighting control system.



## Based on 51 microcontroller light-seeking module

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### **Feng, M. (2017) Design of Intelligent Table Lamp System Based on 51**

Feng, M. (2017) Design of Intelligent Table Lamp System Based on 51 Microcontroller. Electrical and Mechanical Engineering Technology, No. S2.

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### **Arduino UNO-Powered Light Tracking Robot**

Build a simple light-following robot with Arduino! Detect light with LDR sensors and control motors for smooth navigation and movement. By Rithik Krisna.

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An LDR, or Light Dependent Resistor, changes its resistance based on light intensity. As light increases, the resistance decreases, making it ideal for light-seeking robots.

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## **LED Interfacing with 8051 Microcontroller**

LED interfacing with 8051 microcontroller is the fundamental approach to start your embedded systems learning journey, since all of your future projects,

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## **Design of intelligent lighting control system based on 51**

The modules used in the system include AT89C51 microcontroller + LCD1602 display screen + photoresistor module + ADC0832 + small light. This design uses 51 microcontroller as the core

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Explore 8051 microcontroller based projects. These projects are explained thoroughly with the help of a detailed explanation supported by required circuit diagrams, block diagrams, C code and videos.

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## **Learning to Seek: Autonomous Source Seeking on a Nano Drone**

Although light-seeking has been demonstrated before using Q-learning , we present a deep reinforcement learning-based model for source seeking running entirely onboard a nano drone

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## **The Designs of Intellectual Lighting Control System**



With the development and maturity of intelligent buildings, energy conservation becomes a trend, lighting control systems are becoming increasingly popular.

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## **AT89C51 Microcontroller: Pinout, Datasheet and**

The AT89C51 microcontroller is a widely used and versatile integrated circuit that forms the backbone of countless electronic projects and applications.

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## **Intelligent desk lamp based on 51 single-chip microcomputer**

In the actual production, this paper adopts HC-SR501 human body infrared sensor module, which is an automatic control module based on infrared technology. It adopts the design of LH1778 infrared

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## **8051 Micro Controller Projects & Circuits for Engineering**

In this tuotorial, we explain how to make a DIY automatic plant watering system using YL69 moisture sensor probe, YL38 comparator module and 8051 microcontroller. Medium Level

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## **Automatic Residential Lighting System Board Based on**

This is a microcontroller-based intelligent system that puts on and off the light in a residential room by detecting the movement of humans

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## **Design of intelligent lighting control system based on 51**

This design uses 51 microcontroller as the core control, and uses LCD 1602 to display



the collected illumination intensity. The illumination intensity is displayed in the form of an analog voltage signal.

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## **PA144**

Abstract:University of traditional lighting control are ever burning lights, no lights "phenomenon, in order to solve the traditional university classrooms for energy waste phenomenon, specially research the

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## **Design of Traffic Light Control System Based on 51 Single Chip**

The system includes a digital tube display circuit, a reset circuit, a clock circuit, a light-emitting diode circuit and a key circuit. The design idea is divided into six modules: reset circuit,

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## **Light Intensity Data Collector Based on 51 Single Chip**

In this design, a light sensor is used to detect the illumination of the environment. The collected data is read by a single chip microcomputer and displayed through the display screen.

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## **Intelligent lighting control system based on 51 single chip**

The intelligent lighting control system consists of a single-chip microcomputer minimum system, a human body sensing module, a light intensity module, a light control module, a power module and a

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## **Classroom Intelligent Lighting Control System Based on**



PDF , On Jan 1, 2017, Hong-Lai Yan published Classroom Intelligent Lighting Control System Based on 51 Single - chip Microcomputer , Find, read and cite all the

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The intelligent ultrasonic system based on the 51 microcontroller offers advantages such as low cost, high precision, and strong versatility.

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## **Microcontroller Projects**

Interesting DIY microcontroller projects and applications based on various microcontrollers. Explore projects based on 8051, AVR, PIC, Arduino, Raspberry

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## **Controlling Light using Touch Sensor and 8051**

What is a Capacitive Touch Sensor? In this project will interface a capacitive touch sensor module with 8051 microcontroller AT89S52.

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## **Light Chaser: An Automated Robot that Follows the Light**

Hey there! In this tutorial, we're going to build a cool light-chasing robot that moves towards areas of bright light. To do this, we will be using photo

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## **Automatic Night Lamp Circuit Diagram by LDR & LM358**

This article explains an automatic night lamp circuit diagram using LDR and LM358 OPAMP which automatically turns the LEDs ON at night and

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## **ShivamAralikatti/Automatic-Room-Lighting-System**

This project utilizes an 8051 Microcontroller and Infrared (IR) sensors to create an Automatic Room Lighting System with a Bidirectional Visitor Counter. The system

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## **50-Design of intelligent desk lamp based on 51 single chip**

hardware design The overall hardware circuit is based on the 51 single-chip microcomputer as the control core, and is mainly composed of pyroelectric infrared sensor, photoresistor signal processing

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## **Design of Intelligent Lighting Control System Based on**



Based on 51 single-chip microcomputers, this paper sets the lighting state according to the different needs of the teaching building and dormitory by setting time,

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## **LED intelligent lighting control with ultra-low-power MSP430F51x2 family**

Intelligent LED lighting control with the ultra-low-power MSP430F51x2 microcontrollers LED use will significantly reduce the power consumption, operating expense and decrease environmental issues

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## **Lightseeking Sensor Module , SunFounder**

The Light Sensor module can be used in a smart car for the experiment about light seeking. Since the resistance of a photoresistor decreases with strong light, the

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## **Classroom Intelligent Lighting Control System Based on 51 Single**

This paper uses a simple 51 micro controller based control circuit, coupled with a number of auxiliary circuit modules, to achieve the development and testing of the test system.

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