



Solar tracking system using microcontroller 8051 source code

What is a Garden Heliostat? A garden heliostat consists of a mirror mounted on a motorized pivot system that follows the sun's trajectory throughout the day. The mirror reflects sunlight onto a ...

Welcome back, makers! Continuing from our last two articles, we bring you a fresh and exciting list of 10 more trending DIY electronics projects that are ideal for 2025. These projects push ...

We specialize in microcontroller-based systems, IoT integration, automation, robotics, sensor networks, and real-time hardware-software interfacing. Whether you're working with Arduino, ...

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Faculty Coordinator: R. Anirudh Reddy Faculty Members: Dr. T. Vasudeva Reddy, Mrs. Sai Prasanna, Mr. J.Kishore, Mr.M S S Bhargav, Mr. D. Srikar, Mrs. Sangeetha Objectives of Embedded Systems Lab: To learn Basic ...

Learn how to build a WiFi-controlled drone using ESP32 modules and MPU6050 IMU. This DIY project offers stability control, smartphone control, and easy upgradability. Get step-by-step instructions and a complete circuit ...

Solar tracking systems using single-axis or dual-axis configurations rely on slew drives to adjust the tilt and rotation of solar panels. This fine-tuned movement significantly increases energy ...

A microcontroller's major role is that it can be thought of as a self-contained system with a processor memory. Its peripherals can be used in the same way that an 8051 microcontroller can. The bulk of microcontrollers in ...

In this comprehensive guide, we will demonstrate how to build a smart energy meter using ESP32. This DIY Smart energy meter, using an IoT project, will help you track the real-time energy usage of your appliances with ...

Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards can read digital & analog inputs from the sensors. With Arduino, you can write and upload computer code to a ...

What is 8051 MicroController? An 8051 microcontroller is an 8-bit Harvard architecture microcontroller and



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it consists of a CPU, RAM, ROM, I/O ports, timers, and serial communication ports all combined on one chip.

Top 9 Electronic Projects for Engineering Students Let's explore 9 cutting-edge electronic projects (complete with source code) that will help you bridge theory and practice like a pro. 1. Circuit Breaker Using Password The ...

What is Bug tracking system? A bug tracking system is software that keeps track of bugs that the user encountered in any software development or in any project. The three main functionalities of the Bug Tracking system is: ...

As technology continues to advance, the potential for solar tracking systems to further enhance the viability and accessibility of solar energy is immense. By overcoming current challenges ...

The pin diagram of the 8051 microcontroller is used for various purposes in embedded systems. Some of the main uses of the pin diagram are: Interfacing with external devices: The 8051 microcontroller has several ...



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