Design and development of a PLC-based solar tracking system

In this paper, a PLC-based sun-tracking system for parabolic trough solar concentrator which could track the sun along one axes was designed and implemented. In the system, the tracking...

This research paper presents the design, implementation, and performance evaluation of a single-axis solar tracking system (SASTS) employing Siemens programmable logic controller (PLC) ...

This project will address some of the above mentioned challenges, and will increase the photovoltaic panel efficiency up to 35% by using a PLC base active and chronological type dual axis solar ...

The power generation using solar energy has been used widely many years ago due to fuel shortage and its low cost. In this paper, a design and implement of dual.

A dual-axis solar tracking system with a novel and simple structure was designed and constructed, as documented in this paper.

This paper is proposed for a sun tracking system based on LDR sensor using PLC for rotating motor. The paper shows how to develop and implement a single axis solar tracking system with minimum cost.

A solar tracking system refers to a system which is able to track the movement of ...

This process is conducted through the solar tracking and the calculation of the alignment for single axis tracking libraries, depending on whether the system is ...

The objective of this mini project is to develop an automatic solar tracking system where solar panels will keep aligned with the Sunlight in order to maximize in harvesting solar power.

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