

Title: Design and development of plc-based solar tracking system

Generated on: 2026-03-23 14:26:24

Copyright (C) 2026 ESAFETY SOLAR CONTAINER. All rights reserved.

---

The version described in the thesis implements a Siemens PLC based solution, relying on a tracking algorithm to locate the position of the sun; more specifically, the configuration of the linear motors ...

This paper presents the design and implementation of an experimental study of a two-axis (Azimuth and Altitude) automatic control solar tracking system to measure the solar radiation in...

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.

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

A solar tracking system refers to a system which is able to track the movement of the sun throughout the day for maximum energy efficiency and have it at a perpendicular angle to the ...

This paper presents a new design of a Three-axis solar tracking system which is based on Programmable Logic Controller (PLC). The automatic tracking system of solar radiation is done on ...

PLC Based Solar Tracking System - Free download as PDF File (.pdf), Text File (.txt) or read online for free.

The AC500 PLC uses high-precision solar algorithms to ensure that all type of trackers, for either PV, CPV or CSP, are precisely aligned and follow the movement of the sun with exceptional accuracy.

Website: <https://esafet.co.za>

