LabVIEW Solar Tracking Control System

In this blog post, I will show how I made a monitoring system for my home solar using LabVIEW and Raspberry Pi Pico. I was aware of the National Instrument LabVIEW program but had ...

Introduction of solar panels at homes is a solution. This project aims at the development of process to track the sun and attain maximum efficiency using Arduino uno and LabVIEW for real time ...

The Solution: Using NI LabVIEW and the NI PCI-7334 motion controller device to prototype a solar tracking system comprised of two plane-parallel solar panels.

For real time monitoring, the block diagram for a dual-axis solar tracking system in LabVIEW is designed to handle the data acquisition of the solar panel"s movement based on real-time inputs.

osition and maintain maximum efficiency using Arduino UNO and LabVIEW. The parameters such as voltage, current, light intensity of solar panel are acquired continuously. Voltage is measured by ...

This project compares the power output of a fixed solar panel and a tracking panel that adjusts its angle using solar angle equations. LabVIEW was used to read voltage data via a DAQ, compute power, ...

The developed solar tracker with a mini-dish produces high density solar rays, and it could be used for space illumination, irradiation onto the multi-junction cells for electricity production with high ...

Title: The solar panel automatic tracking system based on LabVIEW. Description: The project introduces one kind of automatic tracking system of sun which effectively combined the sun ...

I am required to build a simple circuit using LabVIEW that will control a single axis solar tracker in the following way; - The solar panel will operate on a single axis only. - The solar panel will ...

This study presents an actual implementation of a single-axis solar tracking system (SAST), where an azimuth control scheme is developed to precisely follow the sun"s orientation.

If you are looking for a project to work with or maybe a project for your engineering course, we can assist you by providing the software we developed on LabVIEW for this solar tracking system.

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