

Design and Implement of Dual Axis Solar Tracker System Based Arduino

The computer control plays important role in the solar cell design and development of dual axis solar tracker for the sun's position. The main goal of this paper is to maximize energy output to reduce panel temperature (cooling), to increase efficiency of the PV panel. Small-scale solar is developed through a complete hardware and software in order to function accurately. The main parts in this work are Arduino Uno R3, kit relay, LDR (Light Dependent Resistor), LM35 (temperature sensor), highefficiency solar panel and satellite motor. The Protuse software is used with (Arduino Uno) as embedded computer control. The results show the effectiveness of the complete tracking system.