



# Mobile Solar Tracking System

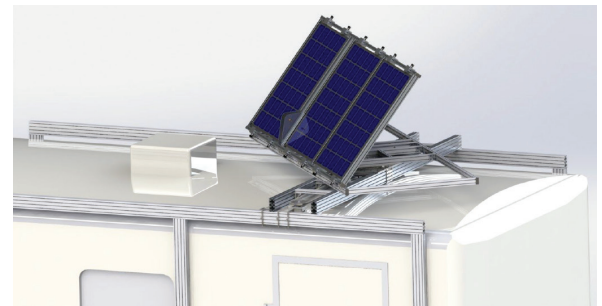
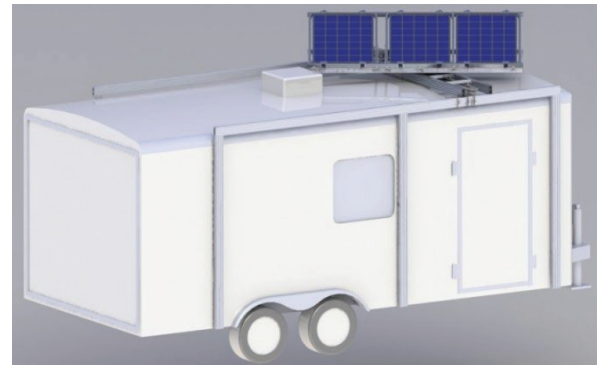
BYU #2017-087

## DESCRIPTION

This technology is a ruggedized mobile solar tracker designed to withstand the rigors of archaeological field work. The solar tracking system is composed of four main subsystems: a subframe, mechanical positioning system, controller, and power generation array. The invention is ready for use and satisfies all desirability goals established at the beginning of the project such as: active axis tracking error, user inputs per day, setup time, peak power output and expandability.

## PROBLEM SOLVED

While traveling to remote dig sites and other locations, having access to electricity can be a challenge to archaeologists. Furthermore, the existing mobile solar tracking systems often don't have the characteristics needed to endure variable weather conditions and transportation, and need to be repositioned manually throughout the day. The technology developed at BYU addresses these challenges, it is user friendly, requires minimal human interaction and it is designed for optimal energy production.



## KEY ADVANTAGES

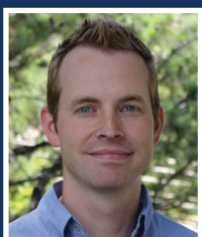
- » *Water and dust proof*
- » *Lightweight*
- » *Rugged design*
- » *Easy and fast setup*

## APPLICATIONS

The invention is ideal for any type of vehicle that is used to travel to locations that lack access to electricity. The solar panels can be mounted on top of a trailer, RV or other type of vehicle, tracking the sun to collect the optimal amount of energy possible, which is stored on a battery array within the vehicle.

**Offer:**  
*License  
Exclusive  
World Wide  
All Fields of Use*

**IP Status:**  
*Patent Pending*



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