Sunflower Solar Panel

**Lesson Description**

This course is an introduction to Arduino circuit building and programming. The targeted age group for this course is students between 12 to 16 years old. Students will be learning open source prototyping of Techtronic’s platform. Students will create interactive electronic objects using an Arduino board, micro controllers and so on.

Prerequisite

The student must have completed VEX EDR

Instruction Method

Lectures, Videos, Labs and Discussion.

Schedule

Other Information

**Parts**

* Photoresistor x2
* Small piece of cardboard
* 6V Motor
* Motor Controller Shield
* Arduino UNO
* 2k Ohm Resistor x2
* F-F Jumper Wires
* M-F Jumper Wires
* Base pole for the solar panel

**Procedure**

* Attach the motor to the base of the pole
* Attach the two photoresistors to the two sides of the cardboard piece
* Attach the cardboard with the photoresistors to the top of the pole
* Connect the positive pins of the two photoresistors to 5V
* Connect the negative pins of the two photoresistors to ground using the 2k Ohm resistors
* Connect the negative pins of the two photoresistors to analog pins