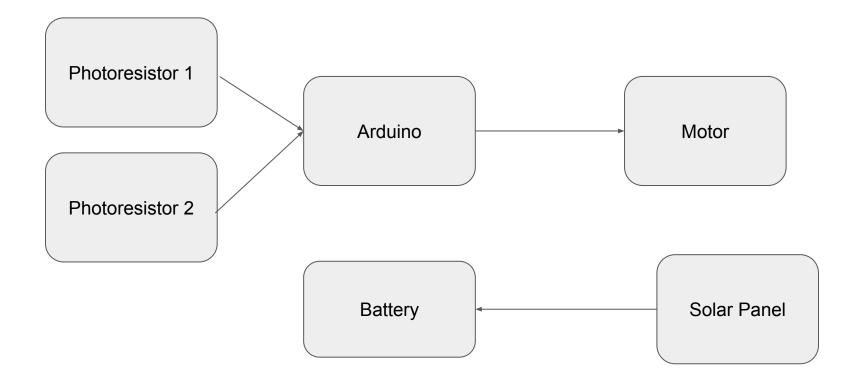
# Sun-Tracking Solar Panel

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#### Abstract

- Fossil fuels cause pollution, damage to human health, and climate change
- Renewable energy sources provide ways to generate power while keeping Earth healthy
- Solar panels do not maximize the amount of energy that can be received from sun solar panels track sun
  - Our solar panels always face perpendicular to incoming sunlight
- Using motor and light dependent resistors, solar panel will turn to face sun depending on difference of amount of sunlight that reaches the

## Schematic



## Code Skeleton

```
void setup() {
    // Set up pins connected to photoresistors(inputs) and motor (output)
}
```

```
void loop() {
   Update(); //update the motor position
   //Still need to choose library that will put Arduino to sleep for specified time
}
void Update(){
   //While the readings from the photoresistors are not within a certain allowed difference...
```

```
while(){
    //If photoresistor 1 is experiencing higher intensity, move in its direction
    //Otherwise, move towards photoresistor 2
    if(){
     }else{
     }
}
```

## Updates 4/25

- The project is nearly complete
- We received a part from the machine shop that allowed us to attach our solar panel to the motor
- We ended up using our battery as a dummy battery
- Our code is complete
- We still have to glue down everything