



# Automatic Light Shade

An ME 208 Project



Pujan Mishra, Jarrett Brooks, Wyatt Wright, Sophie O'Brien, Ryan Newby  
The University of Kansas, Lawrence, KS

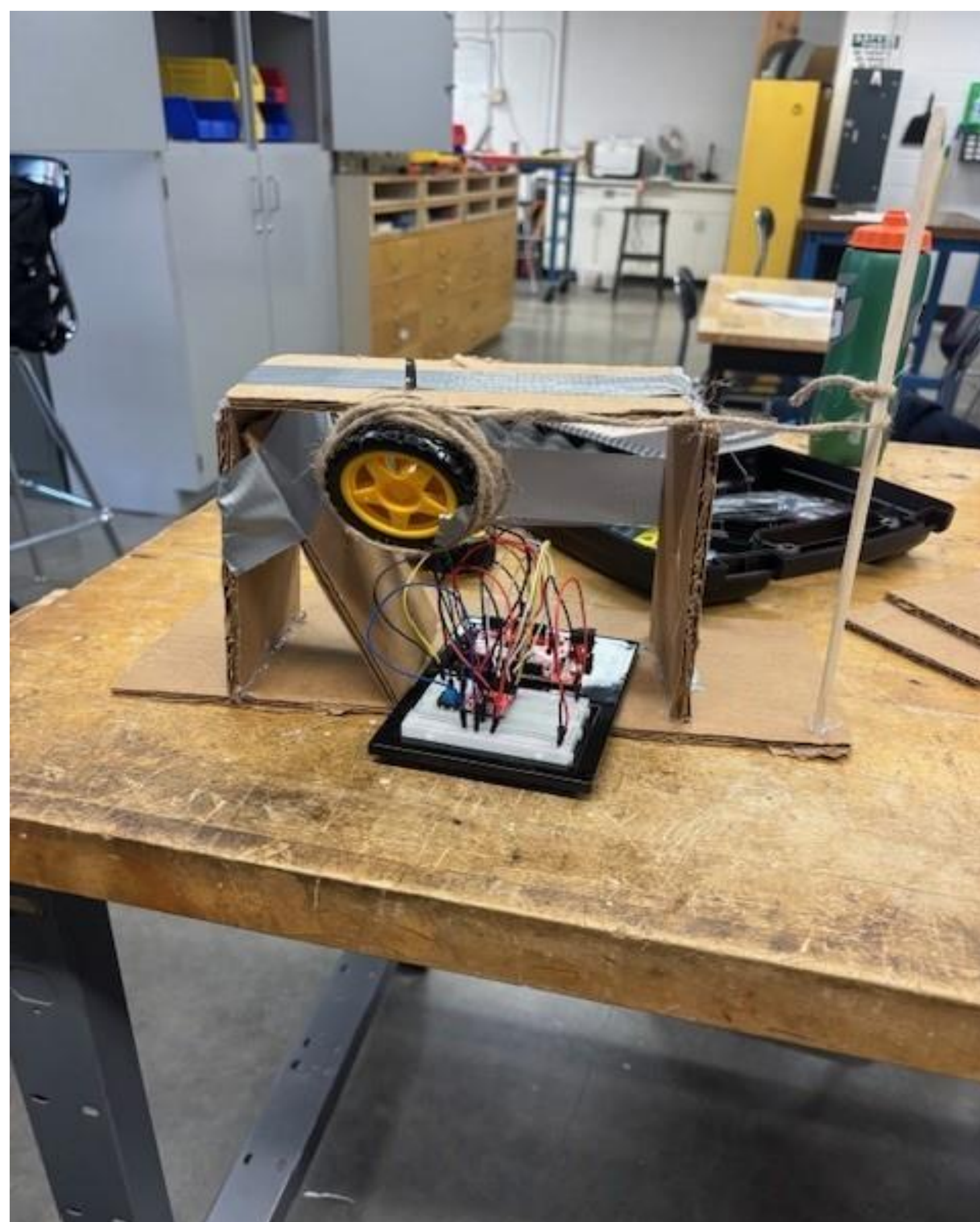


## Background Design Objectives

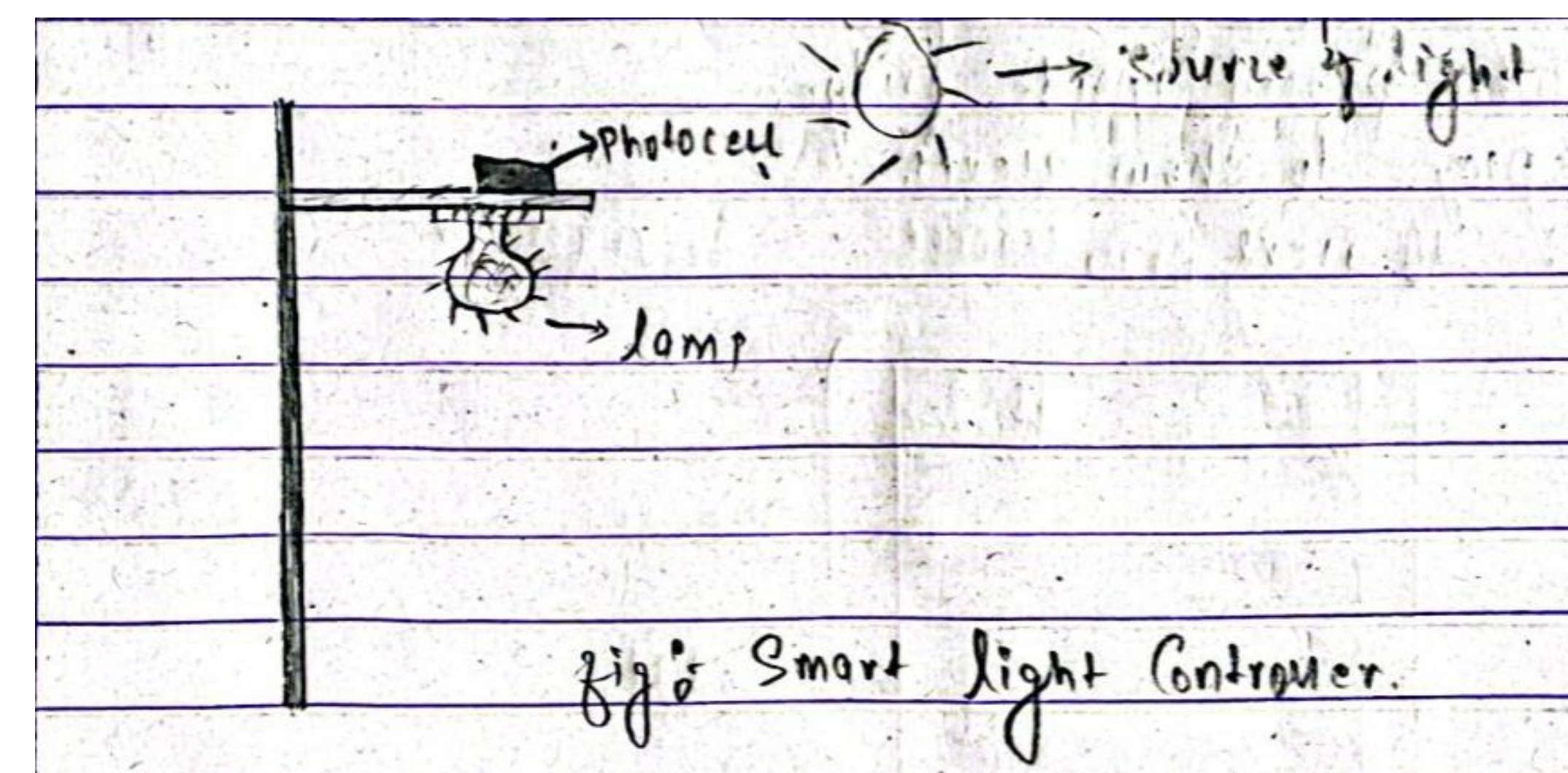
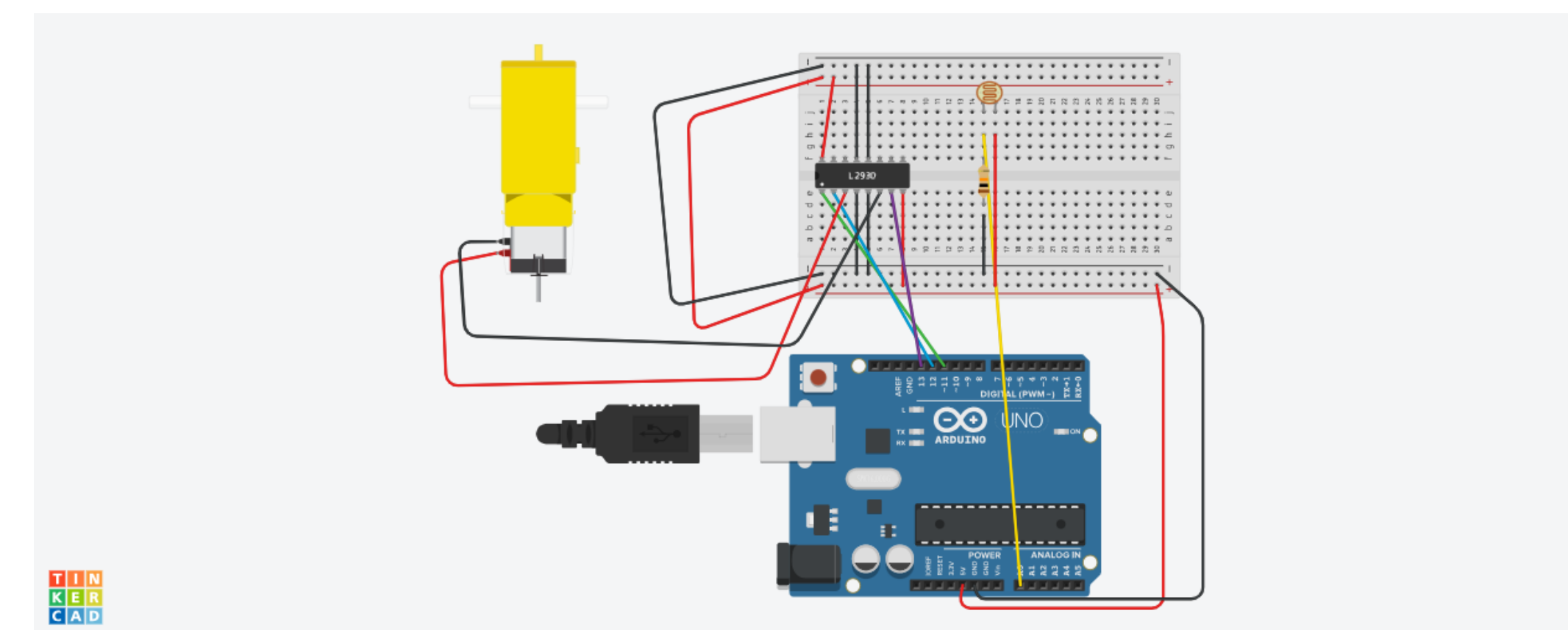
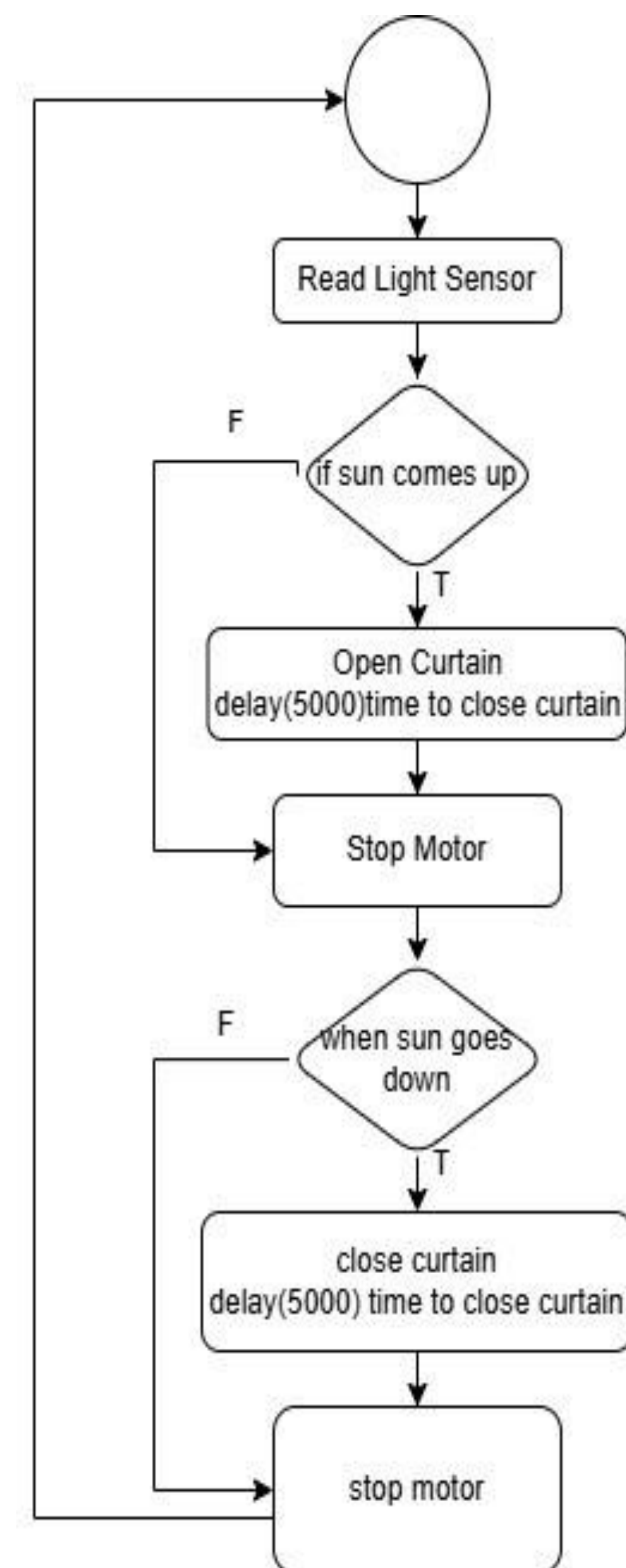
- Automatically opens a window curtain when the sun comes up
- Assists in an everyday task
- Avoid small inconveniences

## Design and Parts

- Rotating pulley system
- Light sensor and gear motor
- Arduino and Breadboard
- PVC pipe, fabric, hooks, nails, wood, glue gun, wheel, cardboard
- Mechanical tools



## Code Flow Chart and Circuit Diagram



## Testing

- Tape did not hold wood stable
- Many adjustments/cuts were made with tools
- Successfully made an automatic curtain that rolls up

## Future Thoughts

- Spend more time testing
- Add another motor on the other side of the design
- Create a smaller design that is easier to transport

