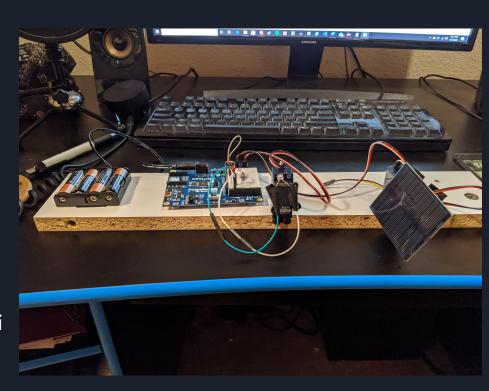
Smart Solar Cell

By, Matthew Kerr + Andrew Peterson + Mario Palacios

Introduction

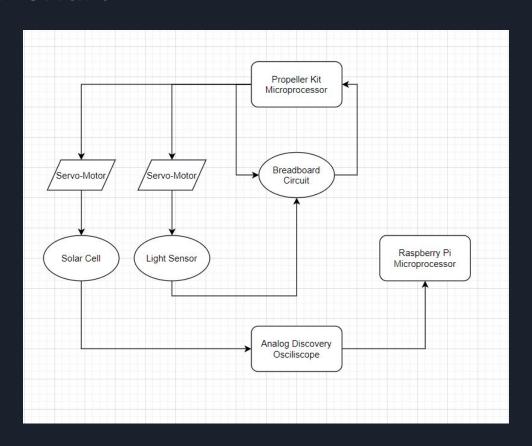
- Smart Solar Cell
- Static = Inefficient
- Optimal Angle
- Predictive Movement
- Data Logging Via Raspberry Pi



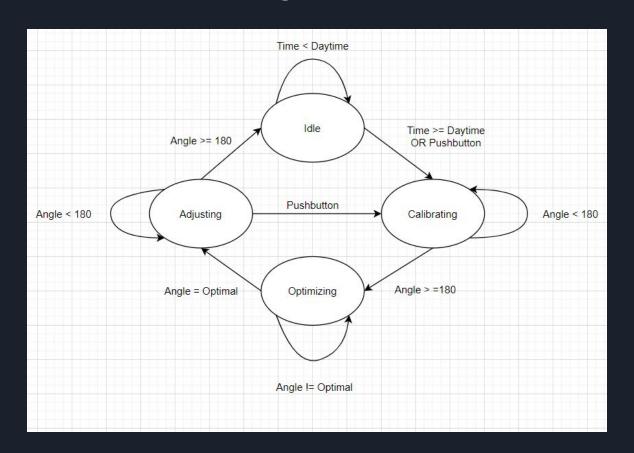
Task Assignment

- Andrew: Solar cell circuit and propeller microcontroller
- Mario: Raspberry pi microcontroller and web server
- Matthew: Debug assistance and admin

Flow-Chart



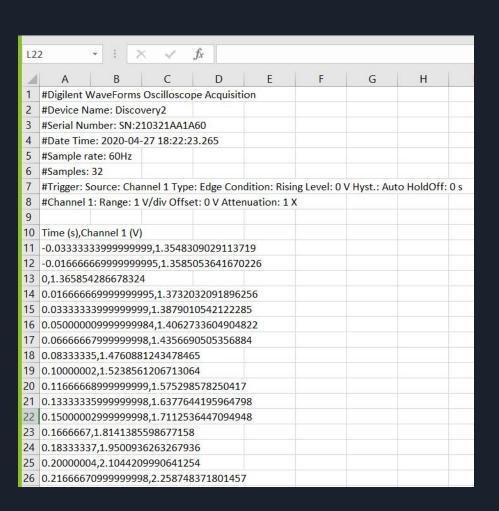
State Machine Diagram



Test Cases

- 1. Matthew: No light source
- 2. Mario: Light source over initial position
- 3. Andrew: Cell drifts off-target

Data



Data contd....

- Attempted to create web server database with Raspberry Pi (Model 3 B+)
 - To display data on a webpage

Conclusion

- What we learnt
- What we couldn't do
- What we would do differently