

Self-Sustaining, Solar Power Robot

Bi-Weekly Report

Accomplishments

- Mounted directional light sensors on our solar array
- Mounted ambient/top light sensor
- Made a lot of progress on soldering our solar cells together
- Mounted and interfaced the first 14 solar cells
- Created and tested the charge circuit*
- Improved and tested our light searching algorithm

Issues

- Solar cell outputs vary greatly in different lighting
- Difficult to mount cells on perf board, fragile cells
- Our solar panels are not producing nearly the current we had anticipated
- BASIC is terrible, complex code is difficult to manage

Goals

- Complete solar array
- Get & Mount batteries
- Test finalized charge circuit
- Improve & finalize light seeking algorithm
- Implement simple object avoidance