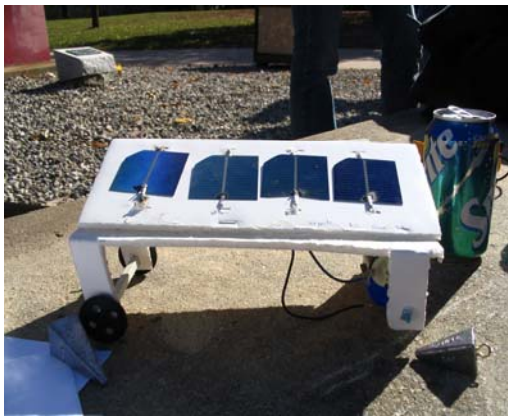
Design Competition Results
Includes photos shot during the competition and Report Submitted by the Team.

Team II
Rob Hana Urmila John

To obtain the greatest possible voltage, solar cells were aligned in series.



Solar cells arranged at an optimum angle towards sun.



Drive gear was attached to the motor gear in order for direct contact (less friction). The car was front wheeled drive, and rested on three wheels total.



Our car's high acceleration and sustained velocity allowed for the quick transportation of a larger amount of weight.



Design Competition Results
Includes photos shot during the competition and Report Submitted by the Team.

Competition Results:

time (s)	weight (g)	dist (ft)	score
3.37	110	17.41667	568.4965
2.97	110	14	518.5185
7	220	16.5	518.5714
10	334	10	334

The car received its best score with less weight, because it was able to achieve great speed as a result of its superior acceleration.

After cargo weight was added, the car still beats the competition, but the distance to time ratio decreases, as expected.
This decrease results as the power harvested by the solar cells is insufficient to provide the motor with enough torque to continue turning the gear at high speeds.