FSU Solar Car Team

Term: Fall 2012

Meeting: 5.5

Date: 09/26/2012

Time: 11am

Location: COE, Building A, 1st floor lobby

Attendance: Matthew Bosworth, ECE Project Leader

Christopher Dresner, ECE Business Administrator

Ahmad Farhat, ECE Treasurer

Thierry Kayiranga, Secretary

Absentee(s):

Agenda: Discuss energy system in more details

Discussion:

* Development

Discussed the working routine of the energy system

While car is cruising at 20mph, it requires about 150W, with a load of approximately 12 Ohm. While the car is accelerating, the motor will draw 300 W, with a load of about 5 Ohm. Batteries will be around 48V and the supercapacitors will provide about 2 -12V since the maximum voltage is 60V. Solar panels will match the 48V with the help of the boost converter by providing at least 12-24V.

* Tasks

MATT: Start working on simulation for bidirectional converter in MATLAB

Talk to Yen for solar panels

CHRIS: Look more into battery options

AHMAD: Calculate the A/h from solar panels

Look more into solar cells

Find way to simulate solar panels if possible

TK: Start working on simulation for bidirectional converter in Psim

Research bidirectional converter

Next meeting

Date: 10/03/2012

Time: 11am

Location: COE, Building A, 1st floor lobby

Agenda: Progress on task