

## **Project 12: Solar Roadways**

### **10/30 Meeting Minutes**

#### **Attendance:**

Tavara Freeman  
Violet Gomm  
Jesse Strange  
Hussain Beleed  
Dr. Herb Hess

#### **Topics:**

- Wikipage Workshop:
  - Tavara is our team's wikimaster, she attended the workshop last week.
  - She will notify Dr. Hess and Dr. Li when the draft wikipage is complete later this week.
- Project Value Proposition was completed and submitted last week.
- Visit Solar Panels:
  - We meet with the Solar Road Warriors last week.
  - Received software instructions and a parts list and schematic for the boards.
  - Offered to have us join them with further testing.
  - Now know which station has the software set up in Senior Design Lab.
  - Resistor values, seem to be slowing the process down for the Solar Road Warriors.
  - Software is Atmel Studio 7
- Contact Fred Pollard
  - Talk with him about the Solar Panels on the edge of campus.
- Preliminary Software Study
  - Plan to work with familiarizing ourselves with the Atmel Studio 7 software this week.
- Meeting next Tuesday 11/6
  - Jesse and Dr. Hess will be gone.
  - Should we cancel the meeting or reschedule to a different day in the week?
- Design Review:
  - Opportunity to take what we are going to do and how we are going to do it and get feedback on it.
  - Snapshot was to show the definition of the project.
  - Design Review will have design pieces out there for others to see.
  - We need to have our budget, if we have one.
  - We need an outline of what we are doing.
  - We need circuit schematics, and flow charts of any software we are using.
  - Goals need to be well defined to show what victory is.
    - They should be very detailed.
  - Typically done in a conference room for the presentation
    - Dr. Li likes powerpoint, Dr. Hess does not like powerpoint
    - Simulations should be shown on software it is simulated on.
    - Planning documents can be shown in paper if you want, doesn't need to be in powerpoint.

- Bringing hardware, being specific our inputs we are getting from other team, like the I-V Curve.
  - Use whatever gets your ideas across best.
  - Goes for an hour, plan 20 minutes for questions.
  - Issue to a formal invitation to Solar Roadways and Solar Road Warriors.
  - Conference Room options:
    - ECE conference room
    - Nasa conference room
    - IRIC conference room
    - Jansen conference room
    - Civil Engineering conference room
  - We have two weeks left to plan this.
    - Should have a date and location picked out later this week to send out invitations.
- To do this week:
  - Contact Fred Pollard for Solar Panel on edge of campus information
  - Draft Wikipage
  - Preliminary Software Study of Atmel Studio 7 on Atmega256RFR2 boards
    - Create a Hello World Program to see if we can create our own software for it.
    - Work in parallel with the developed software and any we create.
  - Schedule Concept Design Review
- Question to think about:
  - Should we define another project with the panels for next semester/year? What would they do?