

Project 12: Solar Roadways

Client Interview 9/11:

Attendance:

- Jesse Strange
- Violet Gomm
- Tavera Freeman
- Dr. Hess

Questions:

- Do you have any concerns about this project starting off?
 - Basic design concepts still thinking about doing classes on the design process
 - Have lessons for ECE students on the design process
 - Wants the project to be worthwhile to the team, see if we can build something
 - Designing the course of what we want to learn out of it.
 - Looking at previous feasibility projects
- Do you have any further documentation about the panels or know how we can obtain more documentation?
 - No further documentation just what is on the website
 - Meet with other solar roadways team for a hand off so we aren't reinventing everything they have done.
 - Managers at solar roadways are a great contact.
 - Take a trip up to them to learn more about what they have and about their products
- Member in university facilities we should make contact with to keep updated?
 - Nope
- Overlapping meeting time issue?
 - Could meet at 10 and just have 45 minutes
 - Change meeting to be 9:55 set a 50 minute standard
 - Can always set assignments 5 minute early if we are running low on time
- How do you want us to go about writing the budget draft since we technically don't have a budget?
 - List out what we want to do and the cost to submit to Hess.
 - May need to write proposal to get funding from university.
 - Department has money for senior design as well
 - Be reasonable, tend to overestimate rather than go cheap to get the job done right.
- How to proceed with additional questions?
 - Meetings, office hours, emails
- Expectations of the deliverables?
 - 9 deliverables by end of course
 - Oral presentation (20 minutes at EXPO)
 - Final written report (roughly 8 pages)
 - Portfolio
 - Logbooks
 - Poster
 - Budget written

- Certify cleanup
 - All documentation on some portable storage (USB, secured dropbox, etc.)
 - Demonstration prototype (Snapshots and EXPO)
- What kind of data will we be dealing with?
 - Visualization on the panels
 - Joe vandal
 - Parking lot lines
 - Some kind of presentation
 - Display:
 - Time division multiplex what we want to display with the two panels and display on a computer screen as well
 - Might want to talk with someone in commercial art
- Goal?
 - Proving how it is beneficial
 - Work with the other solar roadway team
 - Must have a range by the snapshot in October
 - Design Review the week before Thanksgiving Break
 - Design Review in February
 - Snapshot right before spring break
 - Expo in April
- Setuping Panels?
 - Get some permission from the owners of the real estate
 - Athletics and Facilities
- When we have access to the panels?
 - After we have a room to store them securely.
 - Room 102C in GJ
 - Room 208 in GJ (being used by another team)
 - Hess wants people working in this room so he can keep them
 - Room 330 BEL
 - 4 office spaces
 - 1 lab space
- Problem statement?
 - Team will need to decide this by deciding what they want to learn from the project
- Software?
 - MATLAB:
 - Contact Ray Anderson (IT Dean) or JJ to get access to Hess's research license
 - Labview:
 - An option for our display? Can use for real time control