Hey guys,

We need to get a jump on the car and we don't quite have a schedule yet. A few of us have created a number of tasks that should be done as soon as possible until we get an actual schedule up and running. The basic idea is to have the Tuesday lab work on preliminary BMS stuff and the Thursday group work on charge/discharge stuff for the batteries. There are also a lot of organizational things that we need to set up. Below I have listed a number of tasks. They should not take that long and I know a lot of you have a somewhat more relaxed day tomorrow, so try and get some stuff done. I have really only assigned things for the BMS group, but we are going to go over initial tasks for them tomorrow in lab. Look for anything you're assigned to, look at the due date, and abide by it. If anyone has issues with what they've been assigned they can send me an email back, however Nick says you should "suck it up".

Here it is:

Determine Schedule: A small team needs to hash out a preliminary schedule for the entire semester including the dates of all deliverables and major milestones. A specific division of labor need not be assigned yet however major systems should be attributed to the two lab groups. Deliverable is a rough draft of the schedule that will be posted on the website and sent to each member of the team. (Brendan, Nick, Kevin; Due Friday 2/1/2013)

Determine Scope of Project: Go through every one of the requirements in both the statement of work and the electric vehicle rules and determine which requirements if any should be gotten rid of. Get the sign off from Prof. Nadovich for each rule done this way. Deliverable is a revised version of the SoW and EV Rules that will be updated on the website and sent to each team member. (Kevin, Brendan; Due Friday 2/1/2013)

Clean up and organize website: Comments from the previous Nadovich raid are still visible, these should be taken off, but first updated to reflect any desirable changes. Additionally the site should be organized better. The status letters should be found under the documentation section and the miscellaneous section should be taken out in lieu of an actual title. Finally we need to make sure each one of the memos in the binder is posted on the website. Deliverable is an
Safety Plan: A safety plan for dealing with high voltage needs to be developed. A preliminary plan can be found on the website. Take a look at plans from previous years, particularly the solar array, as a our plan can be loosely based on these. Deliverable is a rough draft of the safety plan uploaded to the website and sent to Professor Nadovich. A final version of this will be worked on after the rough draft is critiqued. (Jack, Jake; Due Monday 2/4/2013)

Physics Modelling: We need to update our physics model to include a braking system and retrieve better measurements on peak currents, voltages, and other constraints. This will be an ongoing process, however a write up of the current physics model is needed. Deliverable is a small paper with source code, comments, graphs, and analysis uploaded to the website. (Kevin, Rijan, Ethan; Due Monday 2/4/2013)

BMS

- Research Sensors: We need to determine what sort of sensors should be used as part of the BMS. We need voltage, current, and temperature sensing and a way to fit these into the system. Keep in mind that the required isolation between HV and GLV components. Deliverable is a memo analyzing and indicating what specific sensors should be used on the BMS. An electronic version will be uploaded to the website and a hard copy will be put in the memo folder. (Tony, Nick, Jake)

- Research PIC vs. Arduino (memo): It was suggested at PDR that we look at other possibilities for controlling the BMS. As such we need an analysis on whether to use a PIC processor or an arduino based device. Deliverable is a memo that will be uploaded to the website and a hard copy that will be placed in the memo folder. (Amira, Prarthana, Callum; Due Friday 2/1/2013)

- Research Communication from BMS to SCADA: It was indicated that the I-squared-C communication that was in the plan of record may not be able to communicate fast enough with the SCADA for our desires. We need an analysis of which communication system will be sufficient for our needs. Deliverable is a memo that
will be uploaded to the website and a hard copy that will placed in the memo folder. (Jack, Amira; Due Friday 2/1/2013)

- Set up the PCB Layout and dxDesigner for changing and editing: The previous year should have downloadable files on their website for the BMS system. We need to download these and set it up for us to use again. Talk to Brendan as he may have already set this up. Deliverable is a demonstration that the software is function as well as a brief memo that explains how a colleague can access the files. The memo should be uploaded to the website and a hard copy placed in the memo folder. (Callum; Due Friday 2/1/2013)

Charge/Discharge

  This, assignments, and breakdowns will be discussed with the thursday lab group.

Cheers,
Kevin