

WaitLess Bus Tracking System DK-2 Group status email: Due 2009 February 4

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Current Status

- We finished up the proposal.
- Received the solar panel and wireless module, still waiting on LEDs to be received.
- PCB design is still being worked on by Daniel and will be sent off to be manufactured as soon as possible.
- We took a survey and the results were reported in the proposal.
- The website is up and running.

Task Status: Actions on last week's Action Items

1. Daniel is going to work on making the PCB layout so it can be sent out as soon as possible. He also made the survey to be passed out and results to be used in the proposal.
 - ✓ He gathered the survey results and reported them in the proposal. He is almost done with the PCB layout.
2. Matt will find SOIC-24 to DIP-24 adapters to be used during initial development of the I2C Driver code. He will also continue researching what I2C and Serial libraries are available for the Arduino development board. He will also start to use and create the website for the project. Will take the eBox to the 4180 lab and see if the TA can reflash it with Windows CE, so it will boot up.
 - ✓ Developed the website and it is up and running. The technical review papers are posted. The proposal will be posted tonight. He is still waiting on the SOIC-24 LED Drivers, but did find breakout boards he can use to solder them to when they arrive. These are needed before programming can begin.
3. Josh will look into weather-proof cases to house the project, and create sketches of what it will look like to be placed in the proposal.

✓ The correct solar panel has arrived as of Tuesday. He finished the product sketches that are in the proposal.

4. Chris will look into UART serial communication with the wireless adaptor. He will look into having the WEP Key and commands to connect to GT Wireless when the time comes.

✓ The wireless serial module arrived Tuesday.

Planned Tasks: Action Items for the upcoming week

- Daniel is going to finish making the PCB layout so it can be sent out as soon as possible. Will continue searching for a company to make the weather-proof case.
- Matt will work with Chris to solder pins to the Wi-Fi module. And will help figure out how to have the Arduino communicate with it over UART.
- Josh will look into decal makers. This is needed for the map of the bus routes which will be made on a vinyl sticker to be placed on the front of the case.
- Chris will look into soldering pins to the Wi-Fi module. He will look in the datasheet to figure out what commands are needed to set it up initially.
- All of us plan to meet Tuesdays and Thursdays, at 4:30 to work on the project.

Problems

We are trying to figure out how to interface with the serial module. It did not come with pin-outs, so we will need to solder on some pins. We then have to figure out how the Wi-Fi internet module will communicate with the Arduino. We are unsure of how to save incoming data from serial to a variable or huge array to be parsed.