

WaitLess Bus Tracking System DK-2 Group status email: Due 2009 February 25

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Current Status

- We have code written that successfully lights up the LEDs using the microprocessor and LED controllers.
- We are continuing to develop the logic to write the correct LEDs based on GPS location.
- As soon as the new Wi-Fi module comes in we are going to begin trying to access the GPS data.
- We have the display case now and are looking into a pole to mount it to.
- PCB design was turned into Bob House of ECE on Tuesday 2/24. Should be done in 1 week. We will then solder parts to it, before the PDR on March 12th.
- We are currently refining the code and logic to light LEDs.
- Confirmed the Solar Panel provided about 350 to 400 mA of current when placed outside.

Task Status: Actions on last week's Action Items

1. Daniel is going to finish the PCB layout on Thursday.
 - He turned it in on Tuesday 2/24/09.
2. Matt will continue programming the LED Drivers and figuring out how we are going address all the LEDs.
 - Continued to develop code with Daniel to address the LEDs, some progress is being made to make code efficient.
3. Josh will select a vinyl sticker manufacture and update the LED location excel spreadsheet.
 - Case arrived Wednesday 2/25/09. Has been talking to sticker manufactures that are going to charge \$50 to make 2 stickers. Now considering just using Kinko's Copy Store. He also updated the spreadsheet to assist Daniel in making the LED location information more manageable.
4. Chris will write code for the new wireless module, so when it arrives some code is ready to try out.

- Chris is studying the reference document for the wireless module so when it arrives soon, we can use it.

Planned Tasks: Action Items for the upcoming week

- Daniel is going to try to run the GPS/LED code on his computer and just use Printf to debug it/verify operation.
- Matt will continue implementing the new LED code and logic to verify it will work on the PCB board in a couple weeks. Will write a test program to simulate GPS Locations possibly to be used in the PDR.
- Josh will look into making the vinyl sticker at Kinko's and also go to Home Depot to buy supplies to make stand the case will be on.
- Chris will write code for the new wireless module, so when it arrives some code is ready to try out.
- All of us plan to meet Tuesdays and Thursdays, at 4:30 to work on the project.

Problems

Currently we are trying to correct the logic to write to all the LED controllers using for loops, instead of explicit commands. We are at a standstill with the development of the wireless module until it arrives. Hopefully it arrives within the next week.