

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

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### Current Status

- PCB and Case are completed.
- We are continuing to develop the logic to write the correct LEDs based on GPS location.
- Wi-Fi module arrived without connector, waiting on connector to come in.
- Starting to write the code for the Wi-Fi module.

### Task Status: Actions on last week's Action Items

1. Daniel is going to try to run the GPS/LED code on his computer and just use Printf to debug it/verify operation.
  - Verified correct logic with c++ program, runs correctly.
2. Matt will continue implementing the new LED code and logic to verify it will work on the PCB board in a couple weeks. He will possibly write a test program to simulate GPS Locations to be used in the PDR.
  - Figured out the Large GPS Data arrays were taking up too much RAM. Placed in program memory now.
3. 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.
  - Case is completed with pole and mounts.
4. Chris will write code for the new wireless module, so when it arrives some code is ready to try out.
  - Chris is ordering the connector we need to begin using the Wi-Fi module. Also, has been in touch with a local distributor of Connect One products.

### Planned Tasks: Action Items for the upcoming week

- Daniel is refining the logic in the code to run the LEDs.
- Matt will try to rectify the memory issues we are having with the Arduino. Will possibly write a test program to simulate GPS Locations changing.

- Josh will look into making the vinyl sticker at Kinko's by buying our own vinyl sticker paper, since Kinko's doesn't carry the size we need.
- Chris will write code for the new wireless module, so when it arrives some code is ready to try out. In addition, he will make sure the connector is in by next week so we can use it.
- All of us plan to meet Tuesdays and Thursdays, at 4:30 to work on the project.

### **Problems**

The Wi-Fi module did not come with the connector as the website implied. Therefore, we ordered a sample connector, and hope it arrives soon. Also, we are having issues with RAM filling up on the Arduino micro-processor board we are using.