

## **WaitLess Bus Tracking System DK-2 Group status email:** Due 2009 March 25

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### **Current Status**

- Received Wi-Fi module and new connector. Able to send messages to it via Serial, but can't read the messages it returns yet.
- LED logic is done, video posted on website showing demonstration.
- Sign/box is almost completed.

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

1. Daniel will finish soldering a couple power conditioning capacitors to the PCB.
  - PCB is completely finished. He also soldered the connector for the wi-fi module to a break out board.
2. Matt will test the possible LED locations.
  - Wasn't needed, so worked on communicating with wi-fi module.
3. Josh will finish making the brackets that will hold the PCB in the case.
  - Still devising a way to mount the PCB closer to the cover of the box.
4. Chris will begin to write the logic to receive the XML feed so that the current GPS locations can be saved into arrays of integers, even though the data will come in 1 character at a time.
  - Helped with trying to send codes from the Arduino micro-processor to the module to communicate with the wi-fi module.

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

- Daniel will fine-tune wi-fi xml reader code he wrote.
- Matt will use level shifter that arrives later this week to enable the arduino to see the messages the wi-fi module is sending.
- Josh will finish mounts for PCB inside box.
- Chris will find out what the last character that is appended to messages from the wi-fi module.
- All of us plan to meet Tuesdays and Thursdays, at 4:30 to work on the project.

## **Problems**

The Arduino expects 5 volt logic levels while the wi-fi module expects 3 volt logic levels. We ordered a level shifter that should adjust the levels so we can communicate via serial to the module.