

WaitLess Group status email: Due 2009 January 14 – Updated with a new Group Member.

Daniel Nadeau	dnadeau3@gatech.edu	770-826-2986
Josh Mauldin	smauldin3@gatech.edu	478-320-9854
Matthew Brooks	mattbrooks@gatech.edu	770-851-2270 Web Master (gtg002s unix)
Chris Chidi	chidi@gatech.edu	972-746-8618

Current Status

Our Group ID given by our adviser is DK-2; our group name is WaitLess. We plan to make a solar powered, WiFi driven bus tracking system that can be placed easily without any wires at bus stops on campus. A WiFi module will be used along with a PSoC to receive an XML feed from Next Bus Inc., and using the GPS information contained, LEDs will light up on a map outlining the current location of all busses. From any stop you will be able to see where buses are and decide to walk or wait for it.

We are looking for possible low power microprocessors and micro-controllers. We also are looking into solar panels/batteries and a WiFi module that can interface over serial. We plan to use as much of the equipment already available to get a head start on programming and figure out what is feasible.

Task Status: Actions on last week's Action Items

- We decided to meet at 12:30 pm before our meeting with Prof. Keezer at 1:30pm on Wednesdays.
- Daniel and Josh found some parts that were available and checked them out.
- We plan to get a locker to store all our equipment in today.
- We also divided the technical review paper topics so that we can learn more about the technology behind the product we are making.

Planned Tasks: Action Items for the upcoming week

- Daniel will take care of getting approval to use the Next Bus XML Feed that will provide the GPS location of all the trolleys and stingers. He plans to research GPS in more detail.
- Matt will look into WiFi modules interfacing with PSoC chips. He plans to research more on low power, feature capable PSoC chips.
- Josh will further define the capabilities of the bus tracking system, figuring out what is feasible and what is not in the time allotted. He plans to research Solar Panels, controllers, and batteries.
- Chris will look into WiFi modules that can login to GT Wireless via 'wget' and 'curl' commands. He plans to research how other companies are able to get XML data or any live data streams via WiFi modules that can interface via serial.

Problems

- We currently are have problems figuring out how the PSoC will communicate with a WiFi module, Login to GT-LAWN, and pull up an XML web address.