Plans for Next Semester

Over the course of the first semester, we have determined exactly what we want to accomplish with the mp3 Player and Voice Recognition software. The following chapter will talk about our goals and schedule for next semester.

The first thing we need to accomplish next semester is getting the mp3 player up and running. We will put the mp3 player together and run tests to assure that it is working. We will test that the hard drive will accept mp3 files onto it and that the player will be able to play each of these files. We will need to test the sound quality that the mp3 player will distribute. Also we are looking into software that will allow us to interface with the mp3 player from a computer.

The Voice Recognition Software will be the next biggest task for next semester. We will first be testing Microsoft’s Voice Recognition software on a computer and use that software to convert voice commands into computer commands. Next we will start developing our own software to convert voice commands into computer commands. This will have to be tested thoroughly to be sure there are no logical errors in our reasoning. We will also want to determine solutions for slow response time, voice clarity, and noise issues.

Concurrently with the Voice Recognition Software tasks, the Bluetooth connections will need to be figured out. We aim to use a Bluetooth connection to transfer the voice signal from microphone to the mp3 player software. We wish to determine the furthest distance the microphone can be from the mp3 player for the Bluetooth technology to accomplish the task. We will use the CSR Casira Bluetooth Development kit to connect two different Bluetooth stations to two different computers via USB. Once
we are able to send messages to each other, we will begin testing the received voice signals via the computer and converting them to computer commands via the Voice Recognition Software.

The mp3 Player will be completed within the first two weeks of February. The due date for the project to be on schedule is February 14, 2008. Testing of the mp3 Player will be complete by February 28, 2008. We will begin Bluetooth and Voice Recognition Software tasks by February 15, 2008. We aim to have the Bluetooth working by the end of March. We have no firm date because we have yet to find a dependable driver for the Bluetooth software for Windows XP. The Voice Recognition software task will be the most time intensive task for this team. We expect to accomplish a fully working mp3 Player with Bluetooth capabilities and Voice Recognition Software by the end of April 2008.

Future work beyond April 2008 could possibly include using the Bluetooth capabilities and Voice Recognition Software to operate other electronic devices such as cell phones, computers, etc. Hands free capabilities are going to be not only essential but beneficial in the near future.