Work Completed

This weekly report has a main focus in the voice capabilities of the Automated Syringe-Loading Device. Voice output and voice recognition are both aspects that will allow for easy communication between the user of the device and the microprocessor. The two are separate components that will be integrated together to form a successful operation.

The Devantech SP03 text to speech synthesizer device is by Acroname. It includes the appropriate memory and a speaker. This week it was received and communication was established with the PC by serial port.

Communication by the BrainStem Console was explored and loading and speech was experimented with, as seen in Fig. 2. Through the experimentation, the appropriate speed and pitch was decided upon. Additional information was be sought for programming in the microprocessor for this voice output with the associating C libraries provided on the manufacture’s website.
The SR-06 speech recognition kit was also received this week. Unfortunately, because of inadequate time, only the assembly of the kit was accomplished, Fig. 3. However, this assembly was not all too disappointing because of the great savings that resulted from purchasing the unassembled version.
This kit is expected to allow for easy programming of the single voice recognition chip and contains all of the necessary components. Soldering was also extremely easy due to the step-by-step instructions that were provided with the device.

**Future Work**

The future work that will be on the two voice recognition products will be integration using C programming with the microprocessor for the voice output device. The programming of the voice recognition chip will also be a main focus in the next week. Following successful programming, further integration will be researched to explore the options of communication with the microprocessor.

**Project Review**

This week I was personally relieved to have received all of the components I had been waiting on. The voice recognition kit was finally received over a month after purchase. Also, the movement on working on these two devices has been very fast. I hope to work with Scott on integrating the two voice components in a steady fashion with my background on the devices.

**Hours Worked**

15