

Project Identity

Accessible Blood Glucose Monitor Interface

Week # 11 (April 3 – April 8, 2006)

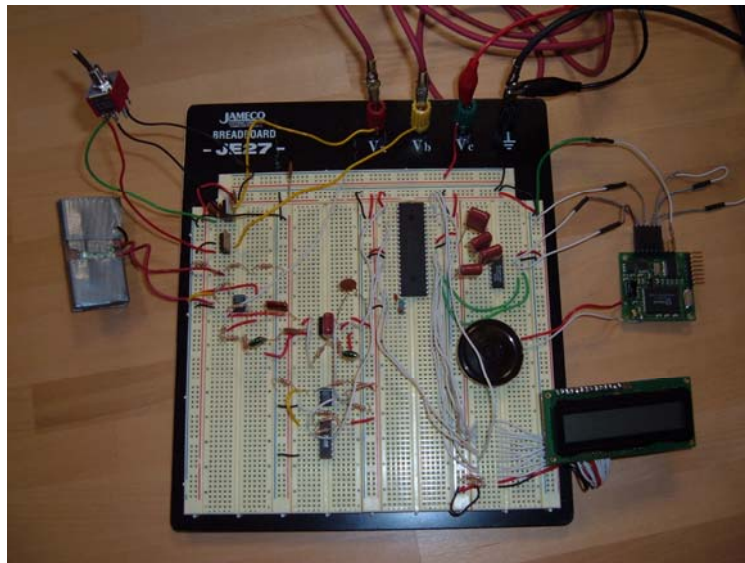
Mike Rivera

Work Completed

This week was again spent primarily working with the vial scanner. Receiving data and converting it from USB to serial has proven to be very difficult. The circuit that was built previously was never able to receive or transmit data. As an alternative to that, we purchased an RS232 to USB adapter/converter. This part was also not successful in transmitting scanned data. A lot of research was done to try and find more alternatives and solutions to converting this data. We also looked at different scanners that may also possibly work.

At the end of the week, the team spent time on tweaking up the software to make the user-interface friendlier and more professional. We are able to turn the meter on to an automatic welcome voice that assures the user ready status with effective screen-speech synchronization. We can then also speak the resulting output of the test. Figure 1 is a picture of the whole set-up as it looks on the proto-board.

Figure 1: Proto-board Set-up



To end the week, a new digikey parts-list was created and Matt was also able to finalize the PCB board. I also began working on the owners manual that must go along with the meter. Instructions, all user operations, safety issues, and all product information must be included in this manual.

Future Work

In the upcoming week, the final PCB will be ordered, as well as the next digikey order to complete the parts list. Close to the entirety of the week will be spent completing the Owners Manual and final report that is due with project. These reports need to be very detailed and thorough so this will be our main concern. It is hopeful that on Friday of next week the ordered parts will be in and the board can start being built.

Project Review

Issues of the vial scanner look grim. As of right now, we do not have it completely working as we need. Advancements have been made, however it is still far from a fabricated attachment that will properly function with our meter. All other aspects of the project seem stable.

Hours Worked: 13