Medicine Reminder & Shampoo/Conditioner Identification Device

Week 8 Progress Report
Team 5:
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Medicine Reminder

Work Completed

- Medication Program
  - Subroutines updated
  - Troubleshooting errors
  - Debugging program
  - Palm OS Emulator being used
Work Completed

- **Medicine Cabinet Design (Front)**
  - Two cabinet design
  - Changed to two door design
  - Adjustable Shelves for different size bottles
  - Magnet to hold doors
  - Labels for the inside of the door
Work Completed

- Medicine Cabinet Design (Side)
  - Shelves cut to prevent sliding out
  - 2 shelf pins per each side to give good support
  - Easy to move shelf pins to adjust shelf level
  - Knob for each door will be screwed in
Future Work

- Confirming and ordering all materials for medication cabinet
- Map out design measurements for casing on the ordered plastics
- More troubleshooting and debugging of the program
- Further emulation and compiling
Project Review

• Goals
  – Have the minimum functions of the program done in the next 4 weeks
  – Continuously add functions until design day
  – Have casing and medication cabinet ready in 4 weeks
Work Completed

- transfer of the PIC from the Quick-Start board to protoboard
- Integration of the PIC circuitry with the SP03 module complete
- PC board fabrication design underway
- Testing of the SP03 speaker quality and volume
- Testing of the waterproof speakers quality and volume
Work Completed (cont.)

- **Speech from SP03 test**
  - Some articulation and speed issues
  - New ideas were tested
  - Clearer articulated words of “shampoo” and “conditioner” now added
  - Working on amplification of volume for waterproof speaker

- **Device casing material further researched**
  - 3” thickness 12”x24” PVC = $348.06
  - 1 ½” thickness 12”x24” PVC = $146.34 ($292.68)
  - Clear polycarbonate from medication reminder casing might be applied to color sensor window as well
Future Work

- finish PC board fabrication design
- Buy cheap plastic samples to ensure material quality to not make the same mistakes as other groups
- Finish circuitry
  - obtain the 7.3MHz crystal
  - amplify the SP03 audio signal
Shampoo/Conditioner Identification Device

Project Review

• Goals
  – 2 main tasks left
    • PC board fabrication
    • Device Casing
  – Aim to complete each task 2 weeks at a time to have device complete on time
Hours Worked

- Sheldon: 13
- Karla: 28
- Kenta: 14

- Total: 55