Using Technology to Measure Adherence of Complicated Medication Regimens

Progress Report 2

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Problem Statement
According to a recent study, almost 75% of patients, especially the elderly, do not adhere to their medication regimens for various reasons. This lack of adherence can prevent a patient’s recovery. Additionally, the present state of affairs is such that if a patient reports no improvement, a physician does not definitively know whether to try a different medication or whether the patient is simply not taking the medication regularly. To improve general health of patients assigned complicated medication regimens, we are to make a device that keeps a record of when a patient takes their medication.

Project Schedule/Important Dates
March 9th  Midsemester Presentation
May 4th  Poster Presentation
May 9th  Final Papers Due

Summary of Team Accomplishments
• Attended outreach meeting
• Decided on new microcontroller for this semester
• Constructed a priority list
• Ordered new microcontroller (PIC18F4685-I/P-ND)

Current Difficulties
None
## Activities

**Sujan**
- Class Meeting: 1.5 hrs
- Expo Meeting: 0.5 hr
- Notebook Update: 0.5 hr
- Communications: 0.5 hr
  
  **Total:** 3 hrs

**Cara**
- Class Meeting: 1.5 hrs
- Home Depot Trip: 1 hr
- BSAC: 0.75 hr
  
  **Total:** 3.25 hrs

**Farshad**
- Class Meeting: 1.5 hrs
- Notebook Update: 0.5 hr
- Website Update: 0.5 hr
- Meeting with David Markovitch: 0.75 hr
  
  **Total:** 3.25 hrs

**Nipun**
- Class Meeting: 1.5 hrs
- Meeting with David Markovitch: 0.75 hr
- Home Depot Trip: 1 hr
- Progress report: 0.25 hr
  
  **Total:** 3.75 hrs

**Team Total Hours for this Week:** 13.25 hrs
**Cumulative Team Hours this semester:** 19.25 hrs
**Cumulative Team Hours to Date:** 465 hrs

## Expenses (approximate values)
- Microcontroller (PIC18F4685-I/P-ND): $27.44