Blood Flow

Week – October 26, 2006 to November 2, 2006

Team Members: Jonathan Baran – Team Leader
    Mark Yarmarkovich – Communications
    Karen Chen – BSAC
    William Stanford – BWIG

Client:
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Problem Statement
Current instruments used in the measurement of pulse transit time are inefficient for home use. An existing product with working ECG and pulse wave circuits along with software to analyze the data has been provided. The primary goal will be to optimize the existing setup for use at home. This will be performed by miniaturizing the circuit, reducing the signal to noise ratio, and improving of the already existing software. These tasks will attempt to be rectified by numerous design additions.

Last Week’s Goals
- Further talk to professors about adding microprocessor
- Talk with Dr. Green about the options
  - Order products necessary
- Further research options

Accomplishments
- Order instrumentation amplifier
- Talked to Microprocessing professor
  - Introduced idea of a USB voltage measuring device
• Introduced idea of making a safe way of unplugging the cord to the computer

This Week’s Goals
• Start programming LabView
• Continue to look for products which might fall into our price range
• Come up with design ideas to have an easy release of a USB wire

Difficulties
• Understanding everything which has previously been done

Activities/Accomplishments

<table>
<thead>
<tr>
<th>Group Member</th>
<th>Weekly Accomplishments</th>
<th>Time (hrs)</th>
<th>Running Total (hrs)</th>
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<td>Jonathan Baran</td>
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<td>William Stanford</td>
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