

# **Wireless ECG Software**

## **Logbook**

by

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Group: 12

Supervisor: Xiadai Dong

Due: Dec. 3, 2012

## **Meeting #1**

**Friday, October 5th, 2012**

Attendees: Mike Chester, James Hollinger, Kurt Matzanke, Tristan Sturgess, and John Tran.

Non-attendees: Dylan Griff, James Parry, Peter Scholten.

Discussion:

- 1) Met with Xiaodai Dong to discuss the Wireless ECG Project.
- 2) The group will be split into hardware and software teams.
- 3) Two sample reports were given as a guideline.
- 4) Discussed several existing alternatives using smartphones.

Objectives for next meeting:

- 1) Decide group members for software and hardware teams.
- 2) Conduct general research and investigate smartphone applications.
- 3) Investigate what an electrocardiogram is.

## **Meeting #2**

**Thursday, October 11th, 2012**

Attendees: Mike Chester, Kurt Matzanke, Tristan Sturgess, Dylan Griff, James Parry, Peter Scholten, and John Tran.

Non-attendees: James Hollinger.

Discussion:

- 1) Assembled most of the group to discuss teams
- 2) Hardware team: Mike Chester, James Hollinger, Tristan Sturgess, and John Tran  
Software team: Dylan Griff, Kurt Matzanke, James Parry, Peter Scholten

Objectives for next meeting:

- 1) Write interim report

**Meeting #3**  
**Sunday, October 14th, 2012**

Attendees: Mike Chester, James Hollinger, Tristan Sturgess, Dylan Griff, Peter Scholten, and John Tran.

Non-attendees: Kurt Matzanke, James Parry.

Discussion:

- 1) Determined that another meeting with our supervisor is required in order to find concrete deliverables and deadlines.
- 2) Made progress on interim report.

Objectives for next meeting:

- 1) Meet with supervisor

**Meeting #4**  
**Monday, October 15th, 2012**

Attendees: Dylan Griff, Kurt Matzanke, and Peter Scholten.

Non-Attendees: James Parry.

Discussion:

- 1) Met with supervisor to discuss interim report guidelines and determine the scope and direction of the project.
- 2) Made progress on interim report.

Objectives for next meeting:

- 1) Finish interim report.

## **Meeting #5**

**Thursday, October 18th, 2012**

Attendees: Dylan Griff, Kurt Matzanke, James Parry, and Peter Scholten.

Discussion:

- 1) Discussed future deliverables/timeline of project
- 2) Finished Interim Report.

Objectives for next meeting:

- 1) Assign different aspects of the project to individuals.

## **Meeting #6**

**Thursday, October 24th, 2012**

Attendees: Dylan Griff, Kurt Matzanke, James Parry, and Peter Scholten.

Discussion:

Assigned/Picked different aspects of the report resulting in the following partition of responsibilities:

- ECG overview/background - Kurt
- Data analysis and algorithm development - Dylan
- Phone application research - James
- Bluetooth protocols and storage design - Peter

## **Meeting #7**

**Tuesday, October 30th, 2012**

Attendees: Dylan Griff, Kurt Matzanke, James Parry, and Peter Scholten.

Discussion:

The group met in the library to do research on their respective topics. We utilized the information and methods provided by Bette Kirchners "Library Research Seminar".

## **Meeting #8**

**Wednesday, November 7th, 2012**

Attendees: Dylan Griff, Kurt Matzanke

Non-Attendees: James Parry, and Peter Scholten.

Discussion:

The basic algorithm was discussed and formulated after the initial research into ECG irregularity classification was complete. This involved a decision on how many, and which kind of irregularities could be detected.

## **Meeting #9**

**Tuesday, November 13th, 2012**

Attendees: Dylan Griff, Kurt Matzanke, James Parry, and Peter Scholten.

Discussion:

The impact of hardware capabilities on the acquisition and clarity of the signal were discussed.

## **Meeting #10**

**Thursday, November 29th, 2012**

Attendees: Dylan Griff, Kurt Matzanke, James Parry, and Peter Scholten.

Discussion:

Got all group members up to speed on where everyone else's section was. Discussed the layout of the final report.

## **Meeting #11**

**Saturday, December 1st, 2012**

Attendees: Dylan Griff, Kurt Matzanke, James Parry, and Peter Scholten.

Discussion:

Worked together on the report (introduction, summary, conclusion etc.). Created a skeleton document for the final report.

**Meeting #12**

**Sunday, December 2nd, 2012**

Attendees: Dylan Griff, Kurt Matzanke, James Parry, and Peter Scholten.

Discussion:

The report was finalized. Each member submitted their respective section to be put together.