Software Engineering Minutes

(outside of class... and involving more than one member)

**Date**: 1/29/2015

**Time:** 2:30-2:50

**Location/Communication via:** Skype Voice Call

**Team Members Present:** All

**Agenda/Discussion:** Team Name(A-Team) and Logo(Mando). Initial plans of action: Meet Client and get acquainted with project, divy up tasks: Requirements(Anne, Hieu), Coding (all but Hieu).

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**Date**: 1/30/2015

**Time:** 11:00 (~15 min)

**Location/Communication via:** McCoy School of Engineering

**Team Members Present:** James, Hieu, Anne

**Agenda/Discussion:** Decided we needed to get test image folder, clearer idea of desired upgrades: No base image input, instead, take necessary information (location of needle and base) from first image if camera remains in constant position throughout, otherwise determine for individual picture.

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**Date**: 2/2/2015

**Time:** 3:30-3:50

**Location/Communication via:** 4113 Lecture time

**Team Members Present:** All

**Agenda/Discussion:** Planned to begin requirements documents and re-meet with Dr. Guo to confirm knowledge base, gain additional details.

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**Date**: 2/2/2015

**Time:** 7:00-9:00

**Location/Communication via:** Moffett

**Team Members Present:** Anne, Hieu (@ 8:20)

**Agenda/Discussion:** Worked together on first draft of requirements document

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**Date**: 2/12/2015

**Time:** 4:00-6:00

**Location/Communication via:** Moffet Study Room

**Team Members Present:** All

**Agenda/Discussion:** Wrote out main goals and divide them according to level of difficulty (James). Picked coding partners - James and Mando, Anne and Sanan, and then took turns picking tasks to do.

James and Mando - handle implementation of including frame rate in the Excel sheet, plotting the data in Excel with automatic graph generation, designing the User Interface, and handling inconsistent image locations.

Anne and Sanan - will implement the utilization of real world units (opposed to just pixels), calculating and outputting net measurements for velocity and acceleration as well as drop volume, and the fine-tuning of resulting locations of the needle and surface.

Hieu worked on the use case diagram.

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**Date**: 2/18/2015

**Time:** 3:00

**Location/Communication via:** BO 320

**Team Members Present:** All

**Agenda/Discussion:** Plan Document Review \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date**: 2/21/2015

**Time:** 2:00-3:30

**Location/Communication via:** Library

**Team Members Present:** All

**Agenda/Discussion:** UML/ UI Design - Decide methods, classes

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**Date**: 2/27/2015

**Time:** 11:00-12:30

**Location/Communication via:** McCoy

**Team Members Present:** Anne, Sanan, Hieu

**Agenda/Discussion:** Meet with Dr. Ok for the first time - discovered that image position will be constant for every set of images. Formula for volume will involve the addition of horizontal, vertical diameters divided by four and plugged into spherical volume equation.

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**Date**: 3/4/2015

**Time:** 12:00-12:30

**Location/Communication via:** Library

**Team Members Present:** James, Romando

**Agenda/Discussion:** Designed initial U/I as well as create a template for various classes which include: ImageProcessingForm, DropletImage, and Ouput.

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**Date**: 3/6/2015

**Time:** 12:00-1:00

**Location/Communication via:** BO320

**Team Members Present:** All

**Agenda/Discussion:** Clear up issues with U/I

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**Date**: 3/8/2015

**Time:** 3:30-5:30

**Location/Communication via:** Library

**Team Members Present:** Sanan, Anne

**Agenda/Discussion:** Start coding new program - get thoughts organized. Load test images and conversion to black and white completed

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**Date**: 4/12/15

**Time:** 6:30 - 8.30

**Location/Communication via:** Library

**Team Members Present:** Sanan, Anne

**Agenda/Discussion:** Worked on isolating the test area by creating a convergence matrix. Isolated and filled droplet and started working on centroid determination.

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**Date**: 4/13/15

**Time:** 4:00-7:30

**Location/Communication via:** Library

**Team Members Present:** Sanan, Anne

**Agenda/Discussion:** Finished centroid determination code. Started working on kinematics and volume calculations. Improved the fine tuning through the addition of pixel threshold values.

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**Date**: 4/18/2015

**Time:** 3:30-6:00

**Location/Communication via:** Library

**Team Members Present:** All

**Agenda/Discussion:** Removed outlying pixels from the circumference of the drop to increase the accuracy of centroid value. Fixed code to cater to multi-threading processing. Edited some code in Excel spreadsheet generation.

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**Date**: 4/20/2015

**Time:** 3:30-5:30

**Location/Communication via:** Bolin 320

**Team Members Present:** All

**Agenda/Discussion:** Initial notice that Excel scatter plot graphs were incorrect.

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**Date:** 4/22/2015

**Time:** 4:30-5:30

**Location/Communication via:** Library

**Team Members Present:** Sanan, Romando

**Agenda/Discussion:** Figured out why Excel spreadsheets were graphing incorrectly but yet to fix the defect.

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**Date:** 4/25/2015

**Time:** 1:30-3:30

**Location/Communication via:** Hieu's house

**Team Members Present:** Hieu, Romando

**Agenda/Discussion:** Fixed defect in which Excel scatter plot graphs were graphing incorrectly

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**Date:** 5/2/2015

**Time:** 2:00-6:00

**Location/Communication via:** Library

**Team Members Present:** Anne, Romando, James, Sanan

**Agenda/Discussion:** Did system and integration testing. Fixed some bugs that would crash the application. Tested the application with different data sets.

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**Date:** 5/6/2015

**Time:** 12:00-2:15

**Location/Communication via:** Library

**Team Members Present:** All

**Agenda/Discussion:** Worked on presentation and did some rehearsals. Did some last minute testing of the demo application.

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**Date:** 5/7/2015

**Time:** 3:30-5:00

**Location/Communication via:** Library

**Team Members Present:** Hieu, Romando

**Agenda/Discussion:** Grammar checked final report.

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