HIT3061 – Software Team Project - Semester 2, 2013

Tremor Detection with Leap Motion

Work Contribution

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**Member 1:**

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| Tremor Detection with Leap Motion | |
| Team Member 1 Photo  Joshua Stopper  5571391 | **Documents**  SRS  Section 1 and 2  Application Architecture Diagram  Project Plan  Section 1  **Software Development**  Developed Solely  frameController file (interacts with the lm API)  validFrame file and functions  colorPicker file and functions  extractData file and functions  getAccelerationAverage File and functions  getAmplitudeAverage file and functions  getArrayAverage file and functions  getEuclidean file and functions  getFrequency File and functions  getVelocityAverage File and functions  base.css  Developed in tandem Minh  Index.html  Tremors.js (base onload Js file)  Modified for use  handDisplay.css file  visualiser.css  **Design**  Designed Solely  Amplitude Flowchart  Frequency Flowchart  Developed in tandem with Ming  Main interface  **Research**  Research in to use of Leap motion device  Research into formulas for calculating  Frequency  Amplitude  Velocity  Acceleration  Research in to Weighted Fourier Linear Combiner  **Networks**  Details  **Project** **Management**  Acted as client contact with Philip Michael  Acted team leader in conjunction with Daniel  **Meetings**  Acted as client contact with Philip Michael throughout project  Acted meeting leader in conjunction with Daniel  **Testing**  **Presentation**  Developed Slides for the first and second progress presentation  Present first and second progress presentation in lecture  Developed Slides for final product presentation  **Manuals**  Technical Manual  Section 1 through 5  **Deployment**  Organising final files and folders for submission  Printing poster  **Other**  Developed poster for final project presentation |
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Member 2:

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| Tremor Detection with Leap Motion | |
| Team Member 2  Photo  Daniel Corsaletti  6450458 | **Documents**  Project plan   * Sections: 2, 3, 4.1, 7.4 * Page Nos. 1 – 10, 16   SRS   * Sections: All * Page Nos. All   Test plan   * Sections: All * Page Nos: All   Test report   * Sections: All * Page Nos: All   Final report   * Sections: All * Page Nos: All   **Software Development**  N/A  **Design**  Submitted design ideas  **Research**  Research tremors  Research frequency, acceleration, amplitude and velocity of movements  **Networks**  N/A  **Project** **Management**  Worked as team lead with Joshua  **Meetings**  Recorded all meeting minutes  **Testing**  Conducted testing of the application  Created test plan and reports  **Presentation**  Presented third progress presentation with Minh  **Manuals**  N/A  **Deployment**  N/A  **Other**  N/A |
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**Member 3:**

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| Tremor Detection with Leap Motion | |
| Team Member 3  Photo  Minh Duc Nguyen  171001X | **Documents** – Development Plan  Sections 8 - Budgets  Page Nos.  **Documents** – Software Requirement Specification  Sections 4 – Interface Requirements  Page Nos.  **Documents** – Test Plan  Sections 1.3/ Measurable  4.2/ Technical Environment  5/ Function to be tested (table)  6/ Deliverables ( 6.1 – functional test result, 6.2 – Usability Questionaires  Page Nos.  **Software Development**  Developed:  Option Form Validation  Tremor.js ( line295 to 400)  Developed:  WFLC future extension function  “js/LeapMotion/analysisFunctions/\_getAmplitudeAverage.js (line 88 to 113)  Developed:  First prototype display live capturing and present data under graph interface  Note: since the requirements were changed, this prototype is eliminated  Developed:  Calculate Euclidean Distance between a set of movement frames and present under graph chart  Note: since the requirements were changed, this prototype is eliminated  Developed:  User instruction on how to move the hand to the right position on the above of the device.  Note: since the requirements were changed, this prototype is eliminated  **Design**  Design software interface to integrate virtual user hand on the screen during data capturing activity  **Research**  Implement Euclidean calculation according to collected data from the device  <http://quiz.uprm.edu/visual3d/manual/coor_sys/dist_two_points.html>  **Networks**  N/A  **Project** **Management**  Creating Trello website account for entire team member to communicate and allocate tasks <https://trello.com/b/QCchfKn4/leap-motion-swin>  Creating Github group account for project files distribution  <https://github.com/ngokylan/Leap-Motion.git>  **Meetings**  Taking notes of all meetings  **Testing**  N/A  **Presentation**  Prepare presentation slides and do presentation on Week 11 with Daniel  **Manuals**  User Manual  Sections Entire Document  Technical Manual  Sections Entire Document  **Deployment**  Download required device driver and compile software package to deliver to user. The delivered package will be usable by clicking on the “index.html” file after installing the device driver  **Other**  N/A |
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**Member 4:**

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| Tremor Detection with Leap Motion | |
| Team Member 4 Photo  Tran Xuong Tran  6700691 | **Documents**  SRS – Sections 2, 3  Page Nos. 4 – 6  Development Plan – Sections 6, 7  Page Nos. 11 – 13  Update some section based on feedback  **Software Development**  N/A  **Design**  Submitted designed idea  **Research**  Research some information how to use of Leap motion device  Research in how to work with JavaScript  Research about 4 formulas frequency, amplitude, velocity, acceleration  Research some documents  **Networks**  N/A  **Project** **Management**  N/A  **Meetings**  Team meeting every weeks with schedule  Supervisor meeting every weeks with schedule  Client meeting with schedule  **Testing**  N/A  **Presentation**  N/A  **Manuals**  N/A  **Deployment**  N/A  **Other**  Developed a Gantt Chart at section 7 in Development Plan  Developed a poster draft |
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…. Continue for each team member

I declare this is an accurate description of team contributions of the team members

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| **Team Member Name** | **Signature** | **Date** |
| Joshua Stopper |  | 05/11/13 |
| Daniel Corsaletti |  | 05/11/13 |
| Minh Duc Nguyen |  | 06/11/13 |
| Tran Xuong Tran |  | 06/11/13 |
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