

Expanse

Demo 1 - Individual Contributions

Group 13

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<https://github.com/joshpaulchan/expanse>

Individual Contributions Breakdown

Allen Tung	<ul style="list-style-type: none"> → Contributed to all documentation → Wrote the window snipping code entirely. → Added bmp to jpg compression in the code → Created istreams for each window image and stored them in a composite file so they can be accessed completely from memory → Saved images to filesystem for demonstration → Added timer to window capture so images are smoother and independent of WM_PAINT messages → Tested the code with various types of windows, finding and fixing errors as needed → Implemented the filtering functions to only save the user visible enumerated windows
Andrew Chan	<ul style="list-style-type: none"> ★ Designed demo brochure (layout, first page) ★ Researched various options for libraries to use ★ Wrote code in C# to implement gesture tracking from Kinect Library (not used in final code) ★ Contributed equally to all relevant documentation
Anthony Wong	<ul style="list-style-type: none"> ➤ Designed and implemented head tracking application for Android phones to control the camera in the virtual scene ➤ Performed integration testing for phone and desktop interaction ➤ Built test virtual scene in Unity for testing and demo presentation ➤ Contributed to all technical documentation ➤ Using C#, wrote network scripts and RPC call functionality to pass rotation matrices from phone accelerometer to desktop. ➤ Using Cardboard sdk, implemented stereo rendering, barrel distortion for comfortable viewing in VR.
Dmitriy Kozorezov	<ul style="list-style-type: none"> ● Designed and implemented the draggable windows and resize windows algorithm for objects using Three.js and javascript, in preparation for virtualizing the window feeds. ● Created virtual space using Three.js ● Contributed equally for all documentation. ● Created and worked on 3/5 slides for the first demo. ● Worked in joint with other members of the Virtualization group on needed specifications and features.
Joshua Chan	<ul style="list-style-type: none"> + I designed and implemented the entire server and GUI, as per the specifications listed in the proposal and following report. + Suggested up with the socket-based integration technique we plan to use to integrate our self-standing sub systems + I contributed equally for all technical documentation

	<ul style="list-style-type: none"> + I wrote the second (back) page of the brochure, images and diagrams included + I created 4/5 slides for the first presentation + I usually organize the meetings for our group and create the base document for our reports
Marc Tabago	<ul style="list-style-type: none"> ❑ Contributed equally to all documentation ❑ Did research about Kinect libraries and APIs leading to discovery of Daniel James Ryan's KinectLibrary ❑ Led development and outlining of gesture tracking software specifications ❑ Implemented the ability of the gesture tracking software to calculate depth maps, find object curves, find contours, and find fingertips in C# by utilizing KinectLibrary ❑ Performed testing of all software methods in preparation for first demo
Yue Yang	<ul style="list-style-type: none"> - contributed to documentation - have some code but not being used - do some side work during the first demo

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