TASKS TO BE COMPLETED

- 1. Kinect (tracking in stage and strumming gesture) Veronicca IN PROGRESS
 - a. Motion Tracking
 - i. STAGE 1: singular person (skeleton)
 - ii. STAGE 2: character creation
 - 1. stick figures or blocks is fine at first
 - 2. then move on to a gogurt with string arms and fingers AND audience be different fruits jumping up and down
 - iii. STAGE 3: two players
 - b. Strumming
 - i. record strumming pattern (BASIC)
 - ii. make imaginary line between two hands to be the invisible chord
 - iii. track two people strumming
- 2. Controllers (playing the guitar EXCEPT strumming) Jesus IN PROGRESS
 - a. Guitar
 - i. Map guitar hero guitar buttons to actual buttons (DONE-Jessica)
 - b. Guitar OR basic drums with MYO controller
 - i. Preferably guitar motion from Raw Data
- 3. 3D Space Bryan IN PROGRESS
 - a. STAGE 1:
 - i. stage with a marke red block for the area the kinect covers
 - ii. fruits in audience and audience roar mp3 when song starts and song ends probably good in functions
 - b. STAGE 2:
 - i. Stage lights go out if you go outside of that block
 - ii. audience jumps up and down to the beat in different random patterns
 - 1. EX
 - 2. 1001101
 - 3. 0010010
 - 4. 1101100
 - 5. ALL the 1 are currently jumping and the 0 are about to jump
 - c. STAGE 3:
 - Have a predefined border but have a warning when kinect loses track of where your hand is
 - ii. audience jumps at random intervals and does the wave maybe
 - iii. add sounds
 - iv. weird stuff cuz austin is weird and stuff
- 4. Oculus Kai IN PROGRESS
 - a. Track the head without everything going crazy, no movement just camera rotation in x y and z

ROBERT Unity research

BRYAN

Currently working on 3D Environment

JESSICA

https://channel9.msdn.com/Blogs/k4wdev/Custom-Gestures-End-to-End-with-Kinect-and-Visual-Gesture-Builder

also watch part 2, you might want to follow along and actually record the gesture while you are at it.

//this doc basically explain VGB but in txt format (I'm a visual learner but we have time constraints so whatever is good for you works)

https://onedrive.live.com/view.aspx?resid=1A0C78068E0550B5!77743&app=WordPdf

JESUS

Research how to collect data from myo using visual studio.

Collecting raw myo data for finger gesture mapping.

Jesus resources:

Control:Mapper Kinect

http://www.controlmapper.com/apps/

Getting raw data from myo

http://developerblog.myo.com/raw-uncut-drops-today/

Plotting data in visual studio

https://codeabout.wordpress.com/2011/05/15/easy-way-to-plot-graphs-in-c-and-visual-studio-201 0/

Raw data ->>>Myo sdk methods: DeviceListener.hpp

https://developer.thalmic.com/docs/api_reference/platform/classmyo_1_1_device_listener.html#de tails

https://developer.thalmic.com/start/

http://diagnostics.myo.com/

Myo Raw Data Collection

https://github.com/zkytony/MyoAVG-essentials/wiki/Documentation-of-setting-up-Myo-Project-on-Microsoft-Visual-Studio-2013-or-similar

Raw data from Myo to Unity

https://gist.github.com/chrisjz/efb6d3aa53fd65fb2364

UNITY ASSETS

Electric guitar: https://www.assetstore.unity3d.com/en/#!/content/12420
Other electric guitar: https://www.assetstore.unity3d.com/en/#!/content/24677

http://codeshare.io/KJXAC

Stat library: http://numerics.mathdotnet.com/DescriptiveStatistics.html