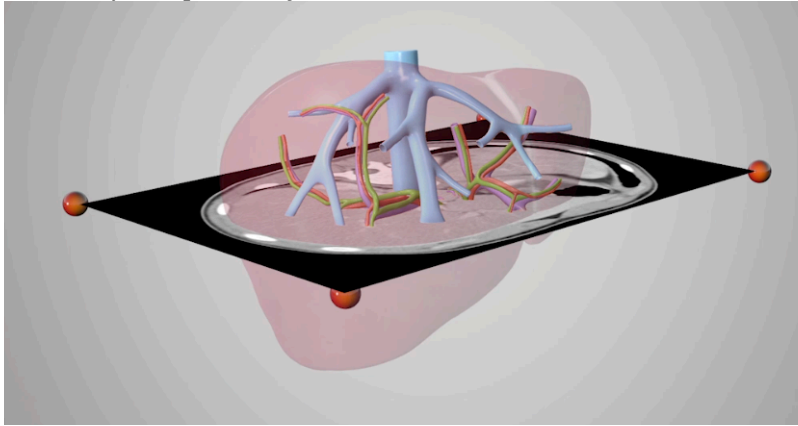2014 FIT Grant Application: Keith Delman, Shishir Maithel, et. al

1) Proposed Innovation
    a. <u>Title:</u> Surgical Anatomy of the Liver 2.0: 3D Model and CT scan integration
    b. <u>Description:</u> Building upon Surgical Anatomy of the Liver 1.0, we will add in a CT scan that perfectly matches the liver and allows the surgical resident to understand the connection between the 2D tomographic images and the 3D anatomy they will see in the OR.
    c. <u>Platform:</u> iPad application to be released on the Apple App Store, that will teach surgical residents
2) Course Outline/ Proposed Syllabus
    a.

    (concept image)
    b. User will be able to turn on and off vessels and whole liver models
    c. User will be able to rotate the liver and connected CT image 360º
    d. Tomographic planes will move through the y and z planes, offering a horizontal and coronal view of CT images
3) Budget
    a. $1000 Programming in Unity 3D
    b. $2400 Unity 3D 5.0 with export to iOS and Mac
4) Schedule for Integration into Class Setting
    a. App should be distributed to surgical residents at Emory for free by February of 2015