Augmented Reality Project Proposal

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The proposal for my opencv project is composed of the standard outlined project of making an environment by pasting together panorama images. The additional component will be to use HoughLinesP to detect the outline of a human subject in full view of the camera, analyse the position of their hands and legs and then cross check with the position of a dancers hands and legs from a youtube video. From these two inputs, a platform to teach people how to dance can hopefully be constructed.

I hope to use the kinect 1 device, although due to laptop recently breaking, I now have a mac book , which is proving a bit more difficult to integrate with Microsoft products. The HoughlinesP portion of analysis was already applied to finding a closing and opening door last semester, thus the algorithms are already there, the search parameters just need to be adjusted.