**(CS262 – Computer Vision) Project Proposal**

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I would like to create a Vision-based HCI Project, centered around the research for developing a tool or apparatus that can grant aid to those with vision disabilities. This research will be centered or subjected on Ms. Taisha (Not sure if I am spelling her name fully, my apologies if so).

The proposed idea/goal is: To create a physical apparatus that can gauge distance/depth with Computer Vision.

My proposed idea/goal is: To create a physical apparatus that can gauge distance/depth with computer vision AND the use of AI (possibly in the form of IBM Watson). Potentially, not only can we gauge distance between the user and objects, but we can also potentially detect and identify these objects. And possibly “save” the identification of a certain object, so that if we were to look for that object, the apparatus can search for that object specifically.

Currently these are my ideas, among many others. I am currently trying out the development tools that come with IBM Watson, so this is definitely a project that will be done as we go along.

My goals include:

Short-term:

* Develop a program that uses computer vision to target and gauge the distance between itself and its focus
* Develop a program on IBM Watson that uses computer vision to identify an object specifically.

Long Term

* Develop a research paper/study around my findings for the future generations
* Design a possible apparatus that can fully implement the programs
* Design a foundation full of research, papers, and outside study so that future generations/students can continue with the project if it interests them.

Conclusion:

I am currently working on this project from two fronts, one from a Computer Vision perspective and the other from an AI Development one (my directed study). I will update you (Prof. Magee) of any changes. I am currently working by myself, but would welcome additional group mates. I will check with other classmates as soon as I can.