Group Name: ???????

Team 4: Gerald Manweiler, Eddie Tai, Ashely Dawn Brown, James Cadek

Project Overview:

The main goal of this project is to make an interactive interface for a real life map with a virtual counterpart, capable of simultaneously capturing and storing audio (& video???) annotations and transcripts on a digitized version of the map for future reference. The system should work by using motion tracking technology on a pen in order to determine the location being referenced on a map. The aim of the system is to be extremely portable, requiring only a laptop computer and a small amount of motion tracking hardware.

The project is being directed by Trevor Wiens of Apropos Information Systems. His goal is to use it with his project entitled LOUIS Heritage, a project based on recording testimonies of aboriginal groups in regards to land use claims. It is scientifically interesting because a portable annotation recording system, based around motion tracking on a paper surface, does not currently exist and could be beneficial to many other scientific fields. The physical component of the interface will be motion tracking hardware, in the form of a (INSERT HARDWARE). The computer will feature a simply interface that lets a user enter basic info on a laptop (Map #, Customer/Witness, Date, etc) and then a button to start and stop the recording.

Evaluation:

The main forms of evaluation of this project will be:

- Ease of use and start up time for preparing a recording

- The subdivision accuracy of the motion tracking (Our client specified a 1mm accuracy goal)

- The versatility of hardware positioning

- Ease/Accuracy of calibration

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