

## DH2413: AGI Assignment 5

### Project Idea: Image Based 3D Scanning

This project will use the camera on the Moverio to find certain objects. The user will then select what object that he/she wants to scan. Once done the user will be prompted to move around the object to begin a sequence where multiple photos/video is gathered.

After enough data has been collected a 3D representation of the object, with textures taken from the image gathering phase, is presented. The model can be viewed either on the Moverio device or in another environment. If the Moverio is used the user is able to place the 3D object in virtual space and connect its position to its corresponding position in the world using GPS technology. This enables the user to walk around and view the model from different perspectives as if it was there.

The project can be both used for recreational purposes, e.g. scan a statue on a trip and show it to a friend once home, and more practical, e.g. seeing a certain piece of furniture at a store and wanting to find out how it would look in your home.

## Sketch of a User Scenario

