protoSight: 3D Home Tours

When planning out layouts of facilities, warehouses or even homes, it is imperative to envision the space in 3D. This project aims to provide an extrapolation of a 2D drawing into an immersive virtual 3D environment that can help the user better visualize the space. The goal is to solve some of the major problems with the current approaches to layout planning by taking advantage of the emerging virtual reality technology as well as the new generation of input devices. Users will tour a space from the comfort of their own home with minimal movement. The Oculus Rift will be worn on the head and a controller will be used to integrate movement. This saves on transportation time and cost, and gives people with physical disabilities the ability to tour facilities with relative ease.