



WEEK 02 : A Xense of Direction

WEEK OVERVIEW

We have made great progress in developing team assets and solidifying project ideas. The three exhibits that we intend to build will each require different software and hardware that we are researching.

PROGRESS

The team has finalized designs for the logo, newsletter, and set up our website, and should soon finish the rest of our branding assets.

We have also narrowed down ideas for our three exhibits:

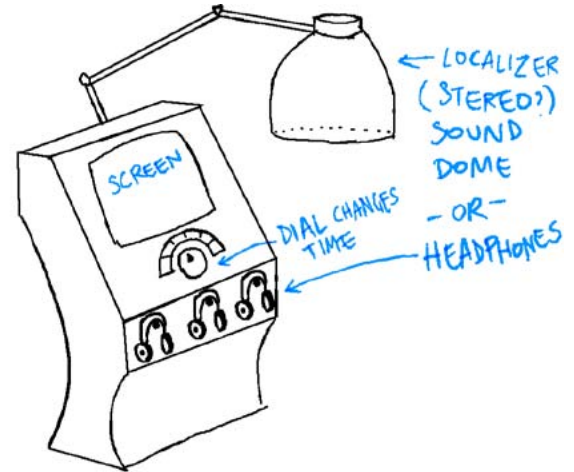
The sound experience will emphasize the progression of cochlear implant technology. A guest will observe and listen to a virtual environment, and by turning a dial, they will be able to transition their environment through history as well as the simulated fidelity of a contemporary cochlear implant.

The visual experience will emphasize the challenges of living with a retinal implant. Guests will be immersed in an activity, perhaps arranging blocks or opening a lock with a key, while wearing headsets that simulate seeing through an implant. It is up to them to learn to "see" as well as compensate with other senses like touch.

The neuroprosthetic experience will emphasize the strangeness of learning something familiar in a new way. The guests will have to race each other by controlling characters with either a "concentration index" or facial muscle movements detected through EEG headsets.

PLANS

The team hopes to keep a strong pace going in to next week by finishing designs for posters and the website. Moreover, we are ready to begin prototyping software and hardware: particularly to order and test various commercially available EEG headsets as well as to begin implementing real-time video processing software.



Above: Concept for audio exhibit booth.

Below: Concept for visual exhibit hardware.

