

Practical 9: Group Project Ideation

How to Build a Digital-Physical System

AME 394

Wednesday 2nd October 2011

Before we begin...

Reading Assignment

Assignment:

Design of Everyday Things

Donald Norman, Chapter 4

Write review of major points

Let's get started...

Group Project

- Develop a conceptual physical digital system for use with a vehicle/during transit
 - Ambient
 - Wearable
 - Large Scale
- Should address a particular task and

Process

Ideate a Concept

- Gather requirements through observation, probes and ethnography. Use this to identify a suitable concept for a physical digital system.

Develop a concept

- Show the development of your concept from simple sketches through to conceptual design.
- This should be well illustrated
- Discuss the use of colour, form, textures, size, reasons for the design, expected users, as well as expected use etc.

Produce a System

- A high fidelity version of the physical digital system should be produced.
- Does not need to be a working implementation
- Expected to develop your conceptual design to a high standard in some form.
- Concept video, fabrication of enclosure, a physical prototype or mockup, initial electronic circuit designs or early stage implementation

Output

Output of Groupwork

- Prototype of the system
- Documentation of the design process
- Presentation within class
- Individual Report

Group Project

- Work in **groups of three.**
- All stages needs to be documented
 - Note goals and objectives
 - Note ideas
 - Note design decisions and why made
 - Describe the process
 - All stages of design (sketches, high fidelity)

Group Assignment

- Create a project summary
 - What it will do
 - Why it does it do it
 - Who will use it, when, how
 - How will they engage with it
 - etc...

Ideation - Sketching

Storyboard



Next Class

Wiki

- Assignments now contains link to group projects
- <http://dc-bdps.wikispaces.asu.edu/Group+Project>

Teams

- Make sure you know your teams
- Have you got **names & emails?**

To Do

Monday:

- Review Design of Everyday things

Wednesday:

- Put Teams on WiKi + Topic
- (<http://dc-bdps.wikispaces.asu.edu/Project+Groups>)
- Meet as groups
- Write project overview