

# **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