Spatial Media

Midterm Project Schedule

Sunday March 6 (1pm)
Form team, Divide the work, Develop Concept, Design storyboards, Find equipment, Create dimensioned drawings

Thursday March 10
Develop fully working (mouse-based) interactive software, Begin work on sensing system, Begin construction

Thursday March 24
Complete sensing system, Complete Construction, Connect sensing system to interactive software, Develop calibration system, Test everything, Present to class

Friday, March 25
Sleep
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Midterm Project

Work in groups of two.

Determine a specific context with specific content.

Design a horizontal interactive surface.

Make it work.
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COMPUTER
(GRAPHICS)

DISPLAY DEVICE

SURFACE

SENSING DEVICE

COMPUTER
(SENSING)
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- Design on paper first (big paper!)
- Design wireframes second
- Design storyboards third
- Implement with OpenFrameworks
  http://www.openframeworks.cc/documentation
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- Find a projector
- Determine optical specifications
- Make dimensioned drawings (CAD)
- Design the mounting system
- Construct the mounting system
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Choose a surface material
Test surface with projection
Determine surface size
Make dimensioned drawings (CAD)
Construct surface and structure
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Find a camera
Find an IR filter and IR light
Determine optical specifications
Make dimensioned drawings (CAD)
Construct camera mounting
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Connect camera to computer
Test actual camera input
Determine best sensing algorithm
Implement sensing algorithm
Test sensing algorithm
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Connect sensing output to graphics input

Develop camera / projector calibration algorithm

Implement calibration algorithm

Test the system