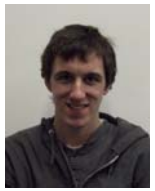
Machines

Team Members


Patrick Aubin


Joe Carden


Marc Huh

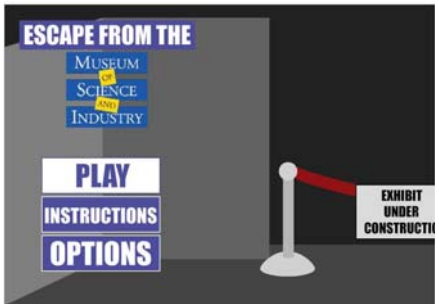

Joe Kaiser

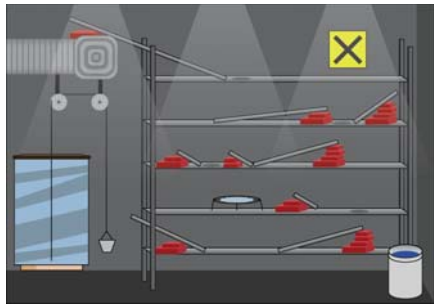

Janusz Nosek

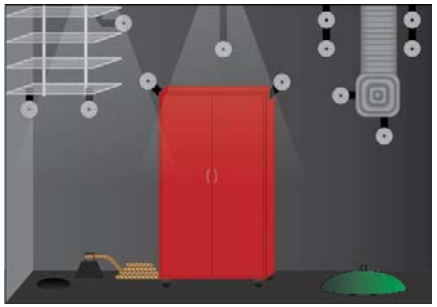
Module Objective

Users will play with simple machines to learn basic principles of physics to escape a virtual exhibit at the Museum of Science and Industry.

Sample Module Screens







Contact Information

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IPRO 333

Interactive Website Module Design and Development for Museum of Science and Industry

Project Background

• This project is sponsored by the Museum of Science and Industry (Chicago, Illinois).
• The Museum of Science and Industry (MSI) contacted the IPRO program about enlisting a student team to develop content for their website (http://www.msichicago.org) over the course of two semesters (Fall 2007 and Spring 2008).
• The team has been asked to create one to three interactive modules for the website.
• These modules will support basic science instruction for seventh and eighth grade students.
• MSI has recognized the need for a modern web presence, which has led them to ask the IPRO team to develop interactive content.
• The developed modules will be incorporated into MSI's website re-launch in 2008.

Project Objective

• The project will engage users of the Museum of Science and Industry website and is intended to raise the number of users for the museum website.
• IPRO team will design interactive and educational modules for an 8th grade audience.
• Each module will reflect specific scientific themes, based on research and analysis.
• Modules will aid teachers, parents, and students with 8th grade curriculum.
• Modules will supplement preexisting or future exhibits at MSI.

Previous Semester

• Research
: Students researched 8th grade curriculum, textbooks, and other related websites in pursuit of ideal science topics for modules.
• Schematic Design
: We formed three teams to develope nine initial ideas for modules, using different topics such as energy, sound, genetics, force, and machines.
: Based on research, Genetics, Energy and Machines chosen for module topics.
• Design Development
: Genetics team focused on the topic of human trait through quizzes.
: Energy team focused on harvesting sustainable energy and raising the awareness of global warming.
: Machines team focused on simple machines including pulley and gear, which are part of a cake making machine.
• User Testing
: At Sheridan Math and Science Academy with 7th grade students.