

# ITS 102 - Topics in Information Technology Studies (Spring 2009)

## Final Project

In the final project you may choose among several light research activities or select your own. You then publish a report in form of a webpage for everyone to see and also give a 10-minute class presentation on your findings. Suitable topics include further exploration of the topics discussed in class (see course webpage <http://www.cs.sunysb.edu/~mueller/teaching/its102/>). The web is a great resource for the final project research. This year your class mates will score your presentation as well. This is not to harass you, but to help you develop good presentation skills. Critical peer review is essential for this.

### More concretely:

1. Describe applications of image processing and illustrative rendering (we will speak about this next class). This is a wide-spread graphics technique and can be found almost everywhere, such as entertainment, education, advertising, medicine, science and many more.
2. Describe applications of HDR (High Dynamic Range Imaging), not only in photography, but also science, medicine, engineering, and others. You could also just play with the demo software (see last slide of that presentation), and use your digital camera and create some of your own example collection (be diverse).
3. Describe three applications in which visualization was helpful to achieve a certain task. This could be in science, engineering, medicine, business, financial market, etc.
4. Describe uses of computer graphics and computer graphics hardware (GPUs). We will speak about it today. You could discuss details of special effects achieved in computer games (this should be more than just showing a bunch of screen shots -- you should discuss some of the technological aspects as well, in a moderate scope). On the other hand, you could also discuss how GPUs are being used for high-performance, general purpose computing.
5. You could also use any type of photo-editing software (for example, Adobe Photoshop, HDR software, or any other) to create some interesting effects with photos of your choosing. Alternatively, you may also use any type of 3D graphics rendering software (such as Maya or others) to generate still frames or animations.
6. Another topic, but you should discuss this first with me.

### Time schedule:

- April 1: email me your powerpoint presentation (suggested length is between 10-15 slides, you need to be able to fill 10 minutes or presentation time at a reasonable pace)
- April 30: email me a webpage (or a URL) on the project, which I will link at the class website (make sure you send me any images you may have embedded in the page as well). You can make webpages easily with MS Word, just save your document as a .mht or .mhtml file which will embed all images and graphics in a single file.

My email address is [mueller@cs.sunysb.edu](mailto:mueller@cs.sunysb.edu). I will email you the presentation date (4/8, 4/16, 4/23, or 4/30) to the address you sent me the presentation from. I will bring the presentation with me to class and call your name. Let me know what day you will not be available, so I won't schedule you then.

Finally: You can do group projects of maximal 2 people involved, but then both of you must present 10 minutes each. It is expected that you have more material to present in that case (about double).