



FINAL PROJECT REPORT

Due March 20, 2008

There are three parts to your final project grade:

1. **Presentation and demo** at the Project Fair on Monday, March 17th from 7:00PM-10:00PM.
2. **Final written report**, submitted by email no later than 11:59PM on March 20th.
3. **Video documentation** of your project, included with the written report hand-in.

Project Presentation and Demo

Prepare a 2-minute talk with 5-10 slides describing your project to a general audience. You do not have to describe all of the details of your project - think of the talk as an advertisement for your project. Your main goal is to encourage visitors to the project fair to visit your project booth during the demo session. You are free to structure this talk however you like, but here are some general topics your presentation might touch on:

- Project goal: What is the general problem addressed by your project?
- Motivation: Why is this problem important? Why is computer vision is a good way to approach it?
- Design and architecture: Describe how the parts of your system fit together. What software and hardware tools did you use?
- Walkthrough: Provide a video or a sequence of images that show your system in action.
- Implementation challenges: What were the tricky problems you had to overcome, and how did you solve them?

After each team has given a presentation, we will have a 2-hour open demo session. You should arrive at the Project Fair a little early so that you have time to set up your project demo before the presentations begin.

Final Written Report

Your final written report is an opportunity for you to reflect on the successes and failure of your final project. It should not read as a sales pitch for your project; save that for your presentation at the Project Fair! Instead, your final report should reveal the lessons you learned in the process of working on your project. Your report should be 2-3 pages in length, and address the following questions:

- Overall achievements and results: Briefly outline your project in its final implemented form.
- Did your approach to the problem work well? How closely did your final system match the functionality of the one you initially proposed?

- Lessons learned: What parts of the project have room for improvement? Looking back, what might you have done differently? What would you add to the project if you had more time?
- Evaluation and redesign: Describe your design process. How did you evaluate your design and find problems? How and why did your project change from your initial concept to what you implemented? As your system evolved, what specific changes did you make to improve it?
- Implementation: Recap the details of your final implementation. What aspects of the implementation were more difficult than you expected, and which were easier?
- Tools: Over the course of the quarter, we learned how to use a variety of computer vision tools. What software tool did you end up using in your project, and how did it help or hinder your project? How could the tool you used be improved to make your project easier to build?

Video Documentation

Record a short video (1-5 minutes in length) that shows your project in action. You may wish to add a narration to this video that explains the goal of the project and the implementation details. The video should explain your project well enough that someone who isn't familiar with the project would be able to understand what you built and why.

The video you create is an opportunity for you to show off how well your project works under ideal conditions. You can think of it as "insurance" in case you have problems getting your demo running during the Project Fair, and it is also a great way for you to keep a record of the project for your own portfolio.

Upload your video to an online location, and include a link to your video in the final written hand-in.