COS 436 / ELE 469
Spring 2013

Final Project Components:
Documentation, Evaluations, Demos, & Parts Return

Summary of requirements & deadlines
- Final project documentation, PDFs of all printed materials for demo session, and final group & self evaluations due Dean's Date, 5/14/2013, 5:00 PM
    - o All submitted electronically
- Demo Sessions: 5/16/2013, 10:00–12:00 and 1:00–3:00
    - o In Friend Center 113. Be ready to present at the beginning of your session.
- Parts due 5/20/2013, 5:00 PM
    - o You may return parts to COS 408 any time between 10:30 AM and 5:00 PM. You may also return parts earlier and/or to another location, but only if you make arrangements in advance.

Final Project Documentation – Due Dean's Date 5:00 PM
At 5:00 PM on Dean's Date, we will download all of the following materials and use the downloaded materials for grading. (So please don't submit late, and don't bother making changes later.) There can be no extension of the deadline without approval of both instructor and dean.

Final blog post instructions:
- Please create a final blog post for your project and add it to the **ProjectFinal** category. Include on this post the following information, in this order and with section headings:
    - o Your group name, group number, and first names of students in your group.
    - o A one-sentence description of your project.
    - o Hyperlinks to your blog posts for all previous project assignments (P1 to P6).
    - o A video or set of videos (or still images accompanied by detailed captions, if video is impossible) demonstrating your prototype in action. You add a voiceover to explain the prototype in the video, or you can submit an accompanying written explanation of how this prototype works. **We recommend uploading and linking to your video well ahead of the deadline**, lest Princeton WordPress encounter more space issues. In a space emergency, consider uploading as a private YouTube video, posting in a public subfolder of a Dropbox account, etc. In fact, if you are happy with your project and would like to show it off to the world, we recommend posting on YouTube or Vimeo! But no matter what, please be courteous and don't upload gigantic files to the WordPress account.
    - o A bulleted list of changes you have made since the working prototype used in P6, if any, along with a brief explanation of why you made each change.
    - o 1–2 paragraphs discussing how and why your goals and/or design evolved over the course of the semester.
    - o 2–3 paragraphs offering a critical evaluation of your project. Does your work suggest that, with further iteration, this could be turned into a useful real-world system? Why or why not? What, if anything, have you learned about this application space as a result of your design, implementation, and evaluation efforts?
    - o 1–2 paragraphs proposing specifically how you might move forward with this project if you had more time. Are there implementation challenges that still need to be solved? If so, how would you set about solving them? Would further testing with users help illuminate the next design refinements? If so, what kind of testing would you do next? Etc.
    - o A link to a .zip file containing all your source code for all components of your project, as well as a brief README that describes how your codebase is organized.
    - o A bulleted list of third-party code that you used, if any, in your project. This includes libraries and code that anyone in your group wrote before this semester or in a different course. Briefly state

how each one was used in your project, and provide hyperlinks to the website of each, where possible.
- o Links to PDF versions of all printed materials you will be displaying at the demo session. (Please see the "Demo Sessions" section below for instructions on what to include in your poster/demo materials.)
- Fill out the form at **http://tinyurl.com/cos436-finalProjectURL** by Dean's Date and tell us the URL of your blog post.

Group & Self Evaluations – Due Dean's Date 5:00 PM

You will fill out the evaluation form **once for each member of your group, and once for yourself**. You will receive an email with the contents of the form when you submit it. You will not be able to edit your responses after they are submitted.

The form is available at **http://tinyurl.com/cos436-finaleval**

Confidentiality: The information you provide here will not be shared with the group member you are evaluating, except in the form of an overall grade at the end of the semester (each student's group participation score will be computed by averaging all mid-semester and end-of-semester evaluations, by all their group members and themselves). There's one exception, though: If you choose to call out any member of your group as doing a superb job (see bottom of the form), we will let them know that their efforts are appreciated. (We won't tell them which group member nominated them, however.) If there is a serious problem in your group, of course, the instructors are happy to discuss ways to handle it. You can tell us confidentially on this form or through a private Piazza message.

Demo Sessions – May 16, 10:00–12:00 & 1:00–3:00, in Friend 113

You will present demos of your projects to your classmates, the instructors, and other faculty and students from across the university. (Please invite your friends!)

Each group will present in either the morning or the afternoon session (see table below). At least some members of your group should arrive early enough to post your materials and set up your demo so you're ready to go at the beginning of the session. All group members must attend and help present the work. You are encouraged but not required to attend a portion of the other session to learn about your classmates' projects.

You will have space to pin up some printed information on a poster board behind your demo area. You should clearly display your group name and project title. You don't need to design a formal poster, and you don't need to create any new materials beyond what you've already created for your past project assignments. However, you should print out (in color when possible) and display information that will help you communicate your project goals, your design process, the state of your current system, and your findings to visitors at the demo session. This information might include print-outs of your mission statement, your original storyboards, photos you've taken of your prototype as it's evolved over time, quotes from participants in your usability evaluation, other information from your evaluations, and/or ways you think your project might be improved. **Please submit all poster/sign/display materials as a PDF (or set of PDFs) posted on your final project blog post by Dean's Date, as described above.**

Your group will be graded on your ability to clearly communicate your project goals, design process, and findings, as well as to demonstrate, explain, and discuss the current state of your project implementation.

Groups presenting in morning (5/16, 10AM–12PM)	Groups presenting in afternoon (5/16, 1PM–3PM)
1, 8, 9*, 10, 11, 12*, 13*, 17, 19, 21*	4, 6, 7*, 14, 15, 16*, 18*, 20*, 24, 25*

Denotes groups who have requested a table.

Project Parts Return – 5/20/2013, 5:00 PM, to COS 408

Professor Fiebrink will be in her office, CS 408, from 10:30AM –5:00 PM on May 20. Please have a group member return all your parts at once at that time. If you prefer to return your parts earlier, please post privately to Piazza and request a different time. (Please make any such request plenty of time in advance, and note that we probably cannot arrange to get parts from you on the weekend.)

Do not leave any of your group's parts in the lab, as you will not receive credit for returning them (i.e., you will lose points off your grade).

You are responsible for returning:
- **Your lab kit**, with all its components. This includes:
  - Breadboard(s)
  - Diagonal cutters
  - Wire strippers
  - Battery holder, if used
  - Sparkfun Arduino Flex Kit
    - Includes Arduino, USB cable, mini breadboard, jumper wires, flex sensor, softpot, photocell, thermistor, tri-color LED, basic LEDs, linear trim pot, buzzer, 5mm button, 330 Ohm resistors, and 10k Ohm resistors.
    - See the lab kit agreement for more specific part information: http://www.cs.princeton.edu/courses/archive/spring13/cos436/handouts/LabKitAgreement.pdf
    - **All these parts must be put back into the red cardboard Flex Kit box.**
  - Sparkfun Beginner Parts Kit
    - Includes parts box, capacitors, 10 diodes, 10 transistors, 60 each male & female header pins, 3 mini power switches, 2 push buttons, 1 trimpot, 2 op amps, 4 voltage regulators, 1 555 timer, 3 LEDs, 1 7-segment red LED, and 1 photocell.
    - See the lab kit agreement for more specific part information: http://www.cs.princeton.edu/courses/archive/spring13/cos436/handouts/LabKitAgreement.pdf
    - **All these parts must be put back into the plastic Parts Kit box. Smallest parts should be grouped into plastic bags (e.g., all capacitors in one bag, all transistors in another bag, etc., just like you got them at the beginning of the semester).**
  - All lab kit components must be in **immediately usable condition**. (Not soldered or glued to anything, not damaged beyond reasonable expectation.)
- Your reusable group project supplies
  - This includes everything you requested in your budget, as well as all extra parts supplied to you from the course pool later in the semester (e.g., extra accelerometers, FSRs).
  - Kinects should be returned in their original packaging, with all cables and power supplies, etc., as specified in class.
  - All reusable project components must be in **immediately usable condition**. (Not soldered or glued to anything, not damaged beyond reasonable expectation.)

Please return all your group's parts at the same time. Failure to return parts (in reusable condition and organized as described above) by the deadline will result in a substantial loss of marks from your project and/or lab grades.