

COS 436 / ELE 469  
Spring 2013

## Course Project Parts List

Due Monday 3/18 at 8:00 AM

### Overview

We will begin to order supplies for your project over Spring Break. These supplies will be for your **P5 working prototype and P6 usability evaluation**. (Your low-fidelity prototype in P3–P4 will be constructed from paper and other similarly low-fi materials.)

### What to Include in the Budget

#### For **Non-Kinect Groups**:

As stated in the P1 PDF, we will fund a maximum of \$100/group in reusable supplies (e.g., sensors, motors, other parts that are not glued or permanently soldered) + \$10/group of non-reusable supplies (glued, soldered, etc.). This budget does not include the Arduino or lab kits: you may incorporate any element of your lab kit without it coming out of the budget as long as it is **reusable** after the semester. You may also incorporate sensors and actuators from the labs for “free” as long as no gluing or soldering is done.

You are welcome to buy your own parts for the project if you want to keep the project at the end of the course, but **you will still have to submit a budget, adhere to the \$100 + \$10 spending limit, and stick to the items you specify in the budget.**

#### For **Kinect Groups**:

If your group is using a Kinect, you may also use your Arduino and lab kit equipment (again, though, these parts have to be **reusable** at the end of the semester). You may request small amounts of money for additional supplies (talk to us first about what you have in mind).

### Do Not Include

Do not include wire, solder, scissors, parts in your own lab kit, etc. in the budget. If you have a question about what to include, ask us on Piazza.

### Important Note

Your overall project grade will be negatively impacted if you do not return all parts by May 20, if you return reusable parts in a non-reusable form (e.g., soldered to something, damaged), if you exceed the \$100 + \$10 budget (even if using some or all of your own equipment), or if you incorporate parts into your project that were not in your budget (without talking to the instructors first).

### Submission Instructions

You will fill out a Google form and e-mail us a spreadsheet of your budget and parts.

The Google form is here: <http://tinyurl.com/b3fxdvvu>

This form includes the following questions:

1. Select a category for your project. See <http://www.microsoft.com/en-us/kinectforwindows/news/faq.aspx> for the difference between Windows vs. Xbox versions. Make the choice based on whether you need “near mode” (use Windows version), want to develop in Visual Studio using official Kinect SDKs (use Windows version) or need to work on a Mac without using Bootcamp (use Xbox version, but your on your own to install OpenNI / libfreenect/etc.).
  - a. Using Kinect; need Kinect for Windows
  - b. Using Kinect; need Kinect for Xbox

- c. Using Kinect; have our own Kinect
- d. Not using Kinect

2. If you are **not** using a Kinect, please choose one of the following options:

a. We request that **COS 436 buys all equipment** listed in the budget. We will not be able to keep the project at the end of the semester. We will ensure that all supplies are reusable by the end of the semester, except those marked in our budget as non-reusable. We will unglue/unsolder all reusable supplies and return them by May 20.

b. **We will be buying all equipment listed in the budget.** We will be able to keep the project after the semester is over. All lab kit supplies still must be returned and reusable by May 20. We will be responsible for ordering or purchasing the parts ourselves. (Contact the instructors if you want advice on where to buy parts.)

c. **COS 436 will buy some equipment listed in the budget.** Overall spending limit remains the same. No more than \$10 of COS 436 money can be spent on non-reusable items. All lab kit supplies and reusable 436-purchased supplies must be returned in reusable condition by May 20.

3. If you are using Kinect, indicate the following:

- a. We do not require any additional materials.
- b. We require some additional materials. (If so, submit the budget form below).

### Spreadsheet Submission

Please download the budget template from

<http://www.cs.princeton.edu/courses/archive/spring13/cos436/project/BudgetTemplate.xlsx>

and populate the spreadsheet with your own budget items.

By 8:00 AM on 3/18, please email this budget to [fiibrink@princeton.edu](mailto:fiibrink@princeton.edu), [roda@princeton.edu](mailto:roda@princeton.edu), and [xiaoyan@cs.princeton.edu](mailto:xiaoyan@cs.princeton.edu).

If you are doing a Kinect project and don't need any other parts (beyond the Kinect and what is in your own personal lab kit), there is no need to submit the spreadsheet. However, do let us know if you anticipate needing communal lab supplies.

### Grading

Your budget/parts list will be graded pass/fail. If you turn in a complete budget and parts list on time, and you adhere to the \$100 + \$10 limit, you pass.

### Where to Find Parts & Prices

We suggest websites for the following companies:

- Sparkfun
- Adafruit
- Digikey
- Mouser
- Allied Electronics
- Jameco Electronics

### Questions?

Feel free to ask us any questions about your parts list up until the deadline. (Please use Piazza; private or public posts are fine.)