**Senior Project (CS 4760) Project Abstract(s)**

Instructions: Please complete your abstract(s) before November 6th.

It is very helpful for you, and us, to talk with one or more CS&T faculty members about your project before submitting it.

To complete your abstract:

* Include these things (as shown in the examples on the next page)
  + Your name
  + A working title for your project
  + One or two paragraphs describing the project. Add, as many details as possible while still keeping the description brief.
  + Add the list of CS3000+ courses whose material you’re using.
  + Add the list of courses whose material you’re missing.
* If you’re working with a customer, other than yourself (this person could be someone in ITS, another PSU department or someone outside PSU), list who that is and how we can get in touch with them.
* If you are submitting multiple proposals, put them on separate forms. Be sure to indicate which one is your favorite. Or, if it doesn’t matter which one you’ll do, say that!
* If you list your projects in alphabetical order by project names, it will be easier for faculty to figure out which is which.
* Be sure to save a copy of your proposals.

Sample project proposals below…

**Guess the Faculty Members’**

**Senior Project Proposals (example 1)**

**Project: JavaScript Atropos**

I will create a web-playable version of Atropos, which is a game based on Sperner’s Lemma. The implementation will use JavaScript so that it works seamlessly on both traditional and mobile devices. The game will be playable by either two human players, or a human and a simple AI player. The game can be set up to start at any size. After an initial version is finished, I will do user testing on some classmates and then improve the usability.

Courses Using:

* CS3020 (Web Programming), because this will be a web page.
* CS4140 (Software Engineering), because I'm going to use a bunch of good OO-design.
* CS3820 (HCI), because I want the interface to be useable.

Courses Missing:

* CS3030 (Advanced Web), because this site will be very JavaScript-heavy. I have lots of experience with JavaScript and will be able to complete the project even without having taken this course.

**Senior Project Proposal (example 2)**

**Project: Three-dimensional Redundancy Checker**

I will create a 3-dimensional RAM memory word-line, bit-line redundancy checker. The implementation will use RTL, or another obscure language, to run on a Mark 1 Strawberry Cheese Cake processor. The hardware-software system will determine an optimal solution with time-limited calculation speed. After an initial version is finished, I will do testing on some sample memory chips and then improve the reliability and execution speed.

Courses Using:

* CS2220 (Computer Hardware), because I need to know a bit about memory hierarchy.
* CS3720 (Systems Analysis), because this is a complex project and I need to design it well.
* CS4250 (Architecture), because I started this project there.

Courses Missing:

* I sure could use more experience with Ohm’s law and test equipment. I plan to learn some of this during the winter break.