

ENGR xD52: Final Project

Due December 19th

The purpose of the final project is to express the awesomeness of CompArch to the world.

Work in groups of N.

The Work Plan

This subdeliverable is by December 2nd at 11PM¹ as an email to comparch13@gmail.com with the subject line formatted as [CA][Final Project Work Plan] Name1 Name2 Name3". Any questions regarding this section should be directed to Molly Farison or Eric VanWyk.

Create a work plan for your final project. Break down the project in to small portions, and for each portion predict how long it will take (in hours) and when it will be done by (date).

This is 5% of the project grade on paper, but often the difference between smiles and tears.

The Documentation

60% of your grade for this project will be the documentation of the project. This documentation will be submitted to the CA wiki, and must answer the following questions:

What did you do?

This is a catchy sentence followed by a paragraph or two. The intended audience should include people that aren't necessarily versed in Computer Architecture, but are technically competent. Even the MechEs should be able to understand this portion.

Why did you do it?

A paragraph or so about why the project you chose is worthwhile and interesting.

How did you do it?

This portion can assume an audience that has taken Computer Architecture, but don't get burdened by buzzwords. A sure sign of a bad engineer is over reliance on acroynms.

How can someone else build on it?

Include everything necessary to pick up where you left off. This should include:

- Code
- Schematics
- build instructions

¹ You really ought to do this before the turkey break...

- A list of difficulties and 'gotchas' while doing this project
- Work Plan reflection
- A possible TODO to extend the depth of the project

This should all be in zip file(s) on your wiki page.

The Actual Project

The remaining 35% of the grade is the execution of a kickass project.

There is a **lot** of flexibility available in what your actual final project can be. I'm proposing that this year's theme be "Communication". It needs to satisfy the following criteria:

- 1) Build upon what we have learned in class this semester
- 2) Have well defined criteria for when it is finished and successful.
- 3) Be achievable within the time allotted.

Things that will definitely be approved:

- 1) Teaching somebody something cool about Computer Architecture
- 2) Something useful to someone that uses Computer Architecture
- 3) Something that needs the skills learned in Computer Architecture
- 4) Something that you can present at Expo that will make people want to take ENGR xD52

Append one of the following phrases to a cool project idea to make it more CompArch-y:

- 1) ... with an FPGA
- 2) ... in assembly
- 3) ... on a GPU
- 4) ... inside a nested series of black boxes
- 5) ... to make go screaming nasty fast.

As you put your project plans together, remember that the biggest portion of this project is communicating it to others.

Reminder: I summarized project ideas in lecture b10001.