

Project or Presentation: Part 1

As you will see on your syllabus, there is 5% of the grade set aside for “project or presentation”. So far nothing has been said about what this “project or presentation” is. That is about to change.

You get a choice between a **project** or a **presentation**. These are completely different assignments.

Presentation option:

You choose a processor that has a completely different instruction-set-architecture (ISA) than the MIPS or x86. Your presentation, in class, to the class, would cover various things such as what instruction types are present in this ISA, what are their formats, how does one program in assembly language for this processor, etc....

A list of possible processors to consider will be made available if anyone asks about this.

Project option:

In the project option you would do something involving the equipment that we have in BR165. This could be using the **Galileo** units or the 7400 series chips that we have (speaking of which, I found more 7400 series chips, including some really big ones that I suspect correspond to larger processor building blocks, such as ALU, register file, etc... but I haven't had a chance to actually look up their numbers yet, but they're quite large chips - if you ask, I can get a list of those numbers to you and you can look them up).

We also have additional hardware for use with the Galileo units (motors and sensors and such) which can be loaned to you.

If you choose the project option, you may work in groups but there must be well-defined roles in the groups.

For either option: You will need to get your project idea or your choice-of-processor approved by the instructor.

What “Part 1” is: Part 1 is getting your project idea or choice-of-processor approved by the instructor.

When “Part 1” is due: **Part 1 is due on Tuesday, February 17th, during class time.**

What needs to be turned in for “Part 1”:

On Tuesday, February 17th, you (and your group, if you're working in a group) are to show the instructor one of the following:

- A list of resources that covers the processor that you want to choose
- **An initial prototype of what your project is going to be, just lacking some of the fancier features**

What happens after “Part 1”:

The instructor will likely either approve or not-approve your proposal.

In the case of a presentation, if not approved, the instructor will work with you to choose a different processor.

In the case of a project, if not approved, the instructor will either alter the proposed project or replace it with a different one.

Goals of the project or presentation:

That you (and hopefully the class too, in the case of presentations) learn!