I wanted to provide you with some additional details about the final project modality. The project consists of 4 steps/deliverables as highlighted below. Note that we are also going to have a project checkpoint right after Thanksgiving (12/1).

|  |  |  |
| --- | --- | --- |
| **Phase** | **Date** | **% of project grade** |
| Pitch presentation | 11/10 | 10% |
| Project proposal | 11/15 | 10% |
| Final presentation | 12/13 | 30% |
| Project report | 12/23 | 50% |

**Pitch presentation:**prepare a short presentation (3-5 minutes) highlighting the main goal of your project, background and motivation, proposed resources and deliverables, expected outcomes. Following each presentation, we will have a Q&A session. When appropriate, the feedback you receive during the Q&A session should be incorporated in your project proposal.

**Project proposal:**The proposal should be 2 pages in length and address the following points:

* + What are your objectives? What are the problems you are trying to investigate?
  + Background and Motivation: What have others done in this area? What is the significance of this work? Include relevant references.
  + How do you plan to implement your project? For instance, what software tools do you intend to use/develop to implement this? What experiments do you plan to perform to evaluate your idea?
  + What kind of resources will you need for your project?
  + What do you expect to discover from your project?

**Final presentation:**The target for your final presentation should be 15 minutes + 5 minutes for Q&A. The outline should touch the following topics:

* + Introduction and motivation
  + Your proposed solution/implementation for the problem you are addressing
  + Discussion of your experimental results
  + Conclusions and possible future directions

You should put particular emphasis on your methodology and results (even if some experiments did not turn out as expected).

**Project report:**The report should be 6 pages (including references) in a two column format and using 10pts font. If you are looking for a template for your report, you can find one [here](https://www.overleaf.com/latex/templates/ieee-conference-template/grfzhhncsfqn). The outline is going to depend on the nature of your project. However, you can use the following list of sections as a guideline to structure your report:

* + Abstract
  + Introduction
  + Background and related work
  + Methodology
  + Experimental results and discussion
  + Conclusions

Make sure all your plots and figures are readable by using colors with good contrast and appropriate font size for your axes and labels.

Hi Morgan,

I wanted to follow up with some guidelines for your project. Based on what you proposed I think it makes more sense to compare two compatible simulators, i.e. NVSim and Destiny. I am attaching the papers that discuss the two simulators, and I have placed an archive for the destiny code on the EECS server (/ee/193EMT/destiny\_v2.tar.gz).

<https://ieeexplore.ieee.org/document/6218223>

<https://ieeexplore.ieee.org/document/7092634>

Possible steps for your projects would be:

- evaluate NVSim and Destiny across the same memory configurations to capture any potential difference between the two implementations.

- evaluate NVM models exclusive to Destiny (SOTRAM, racetrack)

- evaluate 2D vs 3D memory architectures in Destiny

The goal would be to create a database of results for all the different memory configurations and tools so that different design points can be easily compared when choosing an implementation target for a given compute architecture.

Let me know if you have any questions.

Best,

-Prof. Donato