

# CSCE 496/896-003: Real-Time Systems HW #4

Assigned: 2016-03-10

Due: 2016-03-28 in class or by email by end of day  
(i.e. by the time I wake up the next morning, as explained in class)

**NOTE:** I will NOT accept late homework on the last 2 homework assignments. These last two homework assignments are designed to help you meet your project goals and deadlines. So a late assignment isn't particularly helpful for you or for me.

## Homework Overview

The goal of this homework assignment is to provide a checkpoint for you on your way to completing your project. In this homework you will write a detailed outline of your final paper, and fill in drafts of all the sections except for the results (which are likely still pending). I will then provide feedback to you on this draft so you can revise for the final paper.

Administrative notes:

- You may work in your teams on this homework since it's related to the project.

## Expected Outcomes (what I want you to learn)

- How to write a draft of a technical paper which I will then edit and return to you for revision. This is typically how writing and submitting publications works. You submit what you hope is a good draft to a conference or journal. They then have reviewers offer comments and (most likely) return it to you asking for revisions (possibly major, possibly minor).
- Tips for dealing with this homework:
  - Don't get too attached to what you write. It **almost certainly will** change.
  - Think through what you say in each section from beginning to end **before** you begin writing that section. Start with writing how you think about the problem. Then work toward refining the language and arguments to be more clear and concise.
  - Don't get lost in the research literature. Almost every topic is a black hole of endless research down which you can fall and never return. :-) You need to learn enough to make convincing arguments, but not enough to be an expert.
  - Don't try to do this homework in one sitting. Write an outline and a very rough first draft the first week. Then over spring break revise the draft of each section (except the results).

## Deliverables (what you turn in) and Grading

### Draft of Your Final Paper - 100 points

- 10 points - Formatted correctly
  - As discussed in the project document, please format the paper according to your favorite professional society (IEEE, ACM, AIAA, ASM, etc.)

- 20 points - Complete outline
  - Please make an outline of your final paper. It's fine with me if your outline is part of the document you turn in.
  - I suggest that you do this first. Write an outline with bulleted lists in each section and subsection of what you want to say. Then fill in drafts of the sections required for this homework but leave the other sections in tact as an outline. Then you turn in one document that is part draft, and part outline.
- 70 points - Drafts of **all** sections except results
  - Check the project document for what rubric I will use to grade this homework. I will take into account, however, that this is just a draft, not a final submission.
  - Check the project document when you decide how to break the paper up into sections.
  - You don't **have** to have any specific prescribed sections in there, but all the elements **must** be there in an order that makes the paper flow well.
  - An Example (you don't have to follow this outline exactly, but all the elements need to be there for sure):
    - \* Introduction
      - motivating problem
      - your specific contributions (perhaps the most important thing you will put in the paper)
    - \* Background/Related Work
      - how other people have solved this problem, or where your work is positioned in the community
      - context for your work
    - \* Method
      - how you solve the problem
    - \* Case Study, Experimental Setup, Results
      - problem setup
      - details of the hardware, software, tools, experimental methods, etc.
      - results
      - discussion of results
    - \* Conclusion
      - a brief recap of the **most important** contributions of the work
      - a brief mention of limitations and/or future work
    - \* Acknowledgments
    - \* References
  - I won't grade how many references you have, but remember in the final paper you must have at least 15. So I suggest you get close to that number in the draft.