EECS 541 Computer Systems Design Laboratory

Project 1: Experience Design Steps

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Steps in the Design Process

1. **Problem Specification**: Define, understand, and analyze the problem.
2. **Additional Constraints**: Understand constraints imposed by client, cost, environmental, or other external factors.
3. **Research**: Gather extensive information about what is known about the problem, and pros and cons of available solutions.
4. **Analyze and Decide**: Explore and analyze different possible alternatives, and decide on your solution.
5. **Justify/Present/Sell**: You may also have to present and sell your design.
6. **Build Product**: Develop/build the product.

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1 adapted from ABET
Projects from last (2015-16) year
- Check posters outside the lab.

Projects from year 2014-15.
- http://www.ittc.ku.edu/EECS/EECS_541/groups.shtml
- You may also find the proposal documents here: http://www.ittc.ku.edu/~kulkarni/teaching/EECS541/14-Proposals.tar.gz.
Project Tasks

- Study the project posters from last year, 2015-16.
- Select any one project from last year’s list OR Define your own.
- Conduct the following steps for your selected project
  1. Problem Specification
  2. Additional Constraints
  3. Research
  4. Analyze and Decide
  5. Justify/Present/Sell
- Prepare your two/three page proposal and submit it to the GTA.
- Can be done individually or in groups.