EECS 541 Computer Systems Design Laboratory

Project 1: Experience Design Steps

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Steps in the Design Process¹

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



¹adapted from ABET

Project Tasks

- Study the project posters from last year, 2016-17.
- Define/Find your own project OR Select one from last year's list.
- Conduct the following steps for your selected project
 - Problem Specification
 - Additional Constraints
 - Research
 - Analyze and Decide
 - Justify/Present/Sell
- Prepare your two/three page proposal and submit it to the GTA.
- Can be done individually or in groups of two.
- Project Goals
 - Practice the "Steps in the Design Process"
 - Start thinking about your final capstone project
- Deadline: Monday, September 11, 2017.