EECS 541 Computer Systems Design Laboratory

Project 1: Experience Design Steps

Prasad Kulkarni

Department of Electrical Engineering and Computer Science
University of Kansas
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.

1 adapted from ABET
Example Projects

- See example projects from last year.
  - [http://www.ittc.ku.edu/EECS/EECS_541/groups.shtml](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](http://www.ittc.ku.edu/~kulkarni/teaching/EECS541/14-Proposals.tar.gz)
Project Tasks

- Study the project proposals from last year.
- 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.