ECE 4318 Project List

**Date:** 1/31/23, Tuesday, week 2

**Note:** ECE 4318 project scores are 30 grade points. When you work on several projects (with possibly several categories), you could earn up to 38 grade points.

**Group Leaders:** send a project proposal of your group to the instructor by Thursday 2/9/23, 11 a.m., week 3.

You need to have a mini-presentation for category 2 and 3, report for category 2 and 3, presentation, report, and demo for category 1, and demo / record for category 4.

The list below is just suggestion. You can follow that , tweak that, twist that, or make your own.

**Category 1. Development Project (16%+)**

You can propose mini-scale project (since it is shorter than 10 weeks) that provides utility to the community.

* Develop a software that every Cal Poly faculty can use (not necessarily grading)
* Develop a software that every Cal Poly student can use: for example 100 excuses for being absent to the classes; how to network with your friends who graduated last year
* Develop a software that helps matching students for studying midterms.

**Category 2. Study Project (8%+)**

* Study how some software was developed
* Study the different evolutions of a software (for example, how Windows changed from windows 3.1 to 95, to 98 to … to XP to windows 7; what’s the improvements of different versions of visual studio; ..)

**Category 3. Research Project (8%+)**

* Research / search the trend of software. After internet was mobile (cellular phone), then IoT (internet of things), what could be next?
* Research the possible areas that software can be developed. Office (such as MS Office), tax, communications (emails), medical, industry, social network (facebook), information gathering (google), weather, stock, … Anything else?
* Research on the possible institutions providing funds for doing software development; for example, DOD, DOE, NSF, Microsoft, AT & T. What else?

**Category 4. Activity Project (8%+)**

Heard of hackathon? What activity can you initiate to increase the awareness of software, to apply what you learned in ECE 114, ECE 256 , ECE 341 etc. in your other courses, in your daily activities, in ???

**Category 5. Student Proposed Project (8%+)**