**Cal Poly Pomona Electrical & Computer Eng.**

**EGR 4810 Project Design Principles and Applications**

**Quiz 2 – Design**

Note that these questions help evaluate that you have attended the class by watching the lecture recording.

The lecture recording is a synchronous session from last semester. You can skip the first 5-minute introduction and after about half, an hour where the lecture ended and we talked about presentation and polling.

Hope you enjoy the lecture!

* What percentage of designs were tangible and intangible according to the professor when he started and now?
  + 90-80% were tangible then and it is flipped now with a lot more design being intangible.
* In analysis, “evaluating” and “predicting” apply to what stages of an industry project development?
  + Evaluate apply to testing and predicting to simulation.
* In design, which is an open-ended process, how many different designs may you get if you give the same specifications to 100 different engineers?
  + Maybe 100 different solutions.
* What were the “weather buoy” and “Lyle gun” projects, design, analysis or replication?
  + Weather buoy is analysis; Lyle gun is design.
* Replication applies to what stage of a typical program development stage?
  + Manufacturing
* Does reverse engineering apply to design, analysis or replication?
  + Analysis
* According to the professor how often can you expect not to meet all the technical requirements at the end of design, before testing?
  + More than half the time
* What is a typical interview question in wireless communications
  + What are the requirements for an amplifier
* How do alpha and beta releases differ?
  + An alpha release product have just enough completeness that it work to some certain extends but still need a lot of testing and improvement, beta release product have been tested and improved, maybe not thoroughly, that there does not seems to have bugs.
* How do later cycles in brainstorming generate better ideas?
  + Original ideas can be developed further by people other than the person proposing it, making it better