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

**EGR 4810 Project Design Principles and Applications**

**Quiz 1 – What is engineering?**

* Which three 20th century engineering achievements do you consider most important for human kind in general and which three for you in particular?
  + In general: Internet, electrification, and computer. These three achievements together accelerated our abilities to innovate with a much greater efficiency in every single fields. Internet provide an easy way to obtain information, computer made it easier to process information, and electrification provide a common carrier of energy improving the ease of both manufacturing and usage of products.
  + The same three for me just because I like to read novels, comics and video games and these are what I do online with my phone mostly for free. Without all of those three it would be much more difficult to read the same volume of books and video games wouldn’t even have existed.
* What is different between computer scientists and computer engineers?
  + Computer scientists mostly deal with software and are more mathematically oriented while computer engineers deal with hardware relatively more.
* What type of engineer with what orientation is most likely to develop a graphical user interface?
  + Software oriented computer engineer
* Why would an engineer want to be a licensed PE?
  + In U.S. only PE can sign and seal engineering documents related to public services
  + Some states require consultants or private practitioners to be licensed PE
* As well as knowledge and experience what other skill is useful to an engineer?
  + Intuition