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

**ECE 4810 Project Design Principles and Applications**

**Assignment 6 – Engineering mishaps examples**

**Engineering mishaps examples**

Propose three examples of engineering mishaps

* 1 from your own first-hand experience
* 2 from general engineering that taught you the most from

You can use the following format confined to no more than one page

* Describe the incident
* Describe the cause
* Lessons learned

A personal experience was when I was meant to demo a microcontroller circuit I realized that it was not functioning as it should when I tested it before and it is not until after the failed demo that I found out that since testing it on one part of the lab I have loaded it with another part of the lab without changing the wiring back. Lessons learned are not to touch something after I tested it and test it again if I did touch it.

Texas black out earlier this month is another memorable one. Winter storm caused multiple failure in transport of fuels and operation of power plants. It could have been better had Texas connect its power grid to other state’s. The lesson here is perhaps there’s never too much redundancy on something as critical as electricity.

The Great Molasses Flood refers to an incident where 2.3 million gallons of molasses exploded out of a tank, flooded Boston and killed 21. This was caused by a tank that is poorly built and insufficiently tested. The rapid increase of temperature of 40 degrees Fahrenheit also didn’t help. Lessons here are to consider the use case and take into account what the nature is capable of.