

**Requirements and Specification, ESOF 328, Spring 2022**  
**A picture is Worth 1024 Words, Chapter 12, Jan. 28**

What model do you suggest using to show the following?

1. Radiation machine which operates in 5 modes: non-penetrating, low, medium, high and x-ray. Depending on the mode, signals are handled differently – setting/removing shields, and changing properties of x-ray apparatus.
2. Contract to build software to support a stock market trader. It will keep track of customer, their requests, purchases, returns, etc. You are beginning the process of soliciting requirements.
3. You want to model how bills travel through the legislative process and you can't decide whether to use a state transition diagram or activity diagram. Explain what characteristics would help you make your decision about what chart to use.
4. Physics oscilloscope where signals can be taken through various processes, manipulating it to create output signals with specific characteristics.