ECE 323 Homework

1. Write a 1-2pg description of an electronics project based on an application note for the Texas Instruments MSP430 microcontroller or a project from the Circuit Cellar archive. Describe some of the electronics.

2. Write a report (<= 10pgs) using circuit examples in TopSpice.
   a). The LC tank example. Compare the transient and AC analyses. Modify the LC tank example by replacing the current source with a voltage source (put the inductor in series with the voltage source) and reducing the resistor to 1K. Compare the transient and AC analyses.
   b). The MOSFET I-V example. Describe the behavior of this simulation in relation to a few of the video lectures from the MIT Open Course in Circuits/Electronics. Replace the MOSFET with a voltage controlled switch and comment on the I-V curves.