UNCC, Department of Electrical and Computer Engineering, ECGR4101/5101/6090, Fall 2004, Homework #9, Due: 11/10/04, at the beginning of class (20 points)

- 0. How long did this homework take you? (1 point)
- Read the articles "Semiconductor use in automobiles rising"
 (http://www.embedded.com/showArticle.jhtml?articleID=50900275) and "Software as lubricant" (http://www.embedded.com/showArticle.jhtml?articleID=51000103).
 In four sentences, describe what impact this new information has on someone with your skills. (4 points)
- 2. What general purpose I/O port bit is shared with the TA2IN signal? (1 point)
- 3. Write C code to configure timer TA2 to overflow every 19.33 ms (or as close as possible). Generate an output pulse on TA_{2OUT}. Assume the MCU's clock runs at 17 MHz. What is the actual period of the signal generated? (12 points)
- 4. List the changes needed in the code of the previous problem so that the timer will only count when TA_{2IN} is low. (3 points)