## EE/CprE/ComS 571X Discrete Event Systems Control

Homework # 9

## Due:

**Problem 1** Consider the Alternating-Bit Protocol example shown in Page 6, Lecture 3.

- 1. Verify that  $L(P_s||P_{ch}||P_r) \uparrow \{acc, del\} \subseteq pr[(acc \cdot del)^*].$
- 2. Design a controller C such that  $L((P_s||P_{ch}||Q_r)||C) \subseteq pr(K)$ .

**Problem 2** Do Problem 6 of Chapter 4.