

Department of Electrical & Computer Engineering
University of California, Santa Barbara

ECE 152A
Summer 2010
Shynk
H.O. #17

HOMEWORK #8 (last one!)

Due Friday, August 20, 2010 (5:00 p.m.)

Final Exam: Wednesday, August 25, 12:30–1:50 p.m. (**open** book/**closed** notes)

Reading: Chapters 3 (3.9) and 8 (8.9–10)

Problem: For the CD controller covered in class, (i) replace the D flip-flop of the Mealy machine with a T flip-flop and sketch the new circuit. (ii) Instead, replace the D flip-flop with an SR flip-flop (it is not necessary to redraw the circuit) and discuss how it compares with the result derived in class using a JK flip-flop.

Problem: 3.49

Problems: 6.4, 6.6, and 6.32

Problems: 8.27 and 8.36