

CS 3651 Skill Demo #1 LED Blinking and Servo Twitching

Student Name:

Student GTID:

Preparation: Read pages 1-69 in the BoeBot book

Task 1: LEDs and resistors.

Insert computer, LEDs resistors so that your kit appears as illustrated in Figure 2-4 in the book.

TA/Instructor initials _____ date _____

Task 2: Connect and center your servos.

Insert the jumper as illustrated in Figure 2-12. Connect two servo motors as illustrated in Figure 2-13 and 2-14. Follow the instructions in the book to “center” them.

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Task 3: Write code to move your servos.

Write a program that accomplishes the following:

- 1) Power servos, in neutral (no movement) for 5 seconds.
- 2) Move both servos very slowly clockwise for 2 seconds.
- 3) Move both servos very slowly counter clockwise for 2 seconds.
- 4) Move both servos as fast as possible clockwise for 2 seconds.
- 5) Move both servos as fast as possible counter clockwise for 2 seconds.

TA/Instructor initials _____ date _____