

# Bit Banging Project 4 – 8051

## Evaluation (Black Box)

### Purpose:

To facilitate in grading the bit banging boot camp projects. The Administrator is to use their discretion on what the “user’s experience” would be for the particular project, and generate a project score.

### Tasks:

Name of Boot-camp Engineer: \_\_\_\_\_

Name of Administrator: \_\_\_\_\_

Name of Engineer: \_\_\_\_\_

Date: \_\_\_\_\_ Start Time: \_\_\_\_\_ End Time: \_\_\_\_\_

How complete is your project? (%) \_\_\_\_\_

	Notes	Score (0 or 5) N=0, Y=5
Can you show the LED’s binary counting?		
Can you show the LED’s performing a Cylon pattern?		
Can you show the LED’s performing a dual Cylon pattern?		
Can you display ‘10’ on the 7 segment LED display? ‘9998’?		
Do buttons S3 & S4 increment & decrement (respectfully) the displayed count?		
Does pressing button S1 toggle between all of the different features listed above?		
Can you press a button on the breadboard and have the corresponding LED light up?		
Can you press all 4 buttons simultaneously and have all 4 LED’s light up?		
Can you show the 2 lines of text on the LCD?		
Can you show that only 2 pins on the MCU are being used to control the two I2C’s?		

### “User Experience”:

Category:	Description (use as guideline):	Score (1-15):
First Impression	1 – Poorly Organized, 10 - Organized (But not ready when walked in), 15 – Well Organized/Adaptable	
Over all Presentation Experience	1 – Poor communication/Incomplete Project/Mult.Excuses, 10 – Completed project, but not presented well, 15 – Confident/No Excuses	
Time (15min Limitation)	1 - Wasted time setting up/Chit-Chatting, 10 - Went a little over due to questions from outside sources /Asked educated questions, 15 - Finished presentation timely & were informative	
Total Score:	%	/ 95

**Questions for Support Engineers to Answer (on a scale from 1 – 10. 1=Poor, 10=Good):**

1. How was your time management this week?: 1 2 3 4 5 6 7 8 9 10
2. How did your final project and presentation go?: 1 2 3 4 5 6 7 8 9 10