

EEE3095S/EEE3096S Practical 3 Demonstrations/Solutions 2024

Total Marks Available: 15

Stn 1	Stn2
DWD7 A LOOL.	HWKLAWOOI
Zainodine Dawood	Lawrence Hawke
A 1	/ U L
	DWDZ A TOOK

NB Please take a photo of this mark sheet and submit it with your report!

Action + Mark Allocation		Mark	
Pressing PAO should toggle the flashing frequency of LED PB7 from 0.5 seconds to 1 second, or from 1 second back to 0.5 seconds.	2	/2	
The LCD should display the "EEPROM byte" with the correct formatting. This should vary between the values 10101010, 01010101, 11001100, 00110011, 11110000, and 00001111 — changing every 1 second. Check code: SPI must be used for this; if not, student gets zero for this task.	4	/4	
The brightness of LED PBO should vary based on the current value being read from POT1, i.e., off when POT1 is turned fully anticlockwise and maximum brightness when POT1 is turned fully clockwise.	3	/3	
Check code: PAO should have some form of debouncing enabled (see Marking Notes).	1	/1	
Check code: an EXTI interrupt is used to handle PAO presses.	1	/1	
Check code: CRR is calculated correctly (see Marking Notes).	2	12	
Check code: "pollADC" and "writeLCD" functions are correctly implemented and used.	2	. /:	

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