

## EEE3095S/EEE3096S Practical 4 Demonstrations 2022

Total Marks Available: 30

	STUDENT 1	STUDENT 2	249 3
STUDENT SURNAME	ABRAHHM	KEGAKILWE	NJAME
STUDENT FIRST NAME	KARAN	OMOLEMO	BONG
STUDENT NUMBER	ABR KAROOG	KGKOMOCOI	MIMLU
STUDENT SIGNATURE		O.Kegakilwe	Mount

TUTOR NAME + SIGNATURE	Daniel. Coert Car
DATE [YYYY-MM-DD]	18/10/2022

Section	Action + Mark Allocation	Mark
Intro	Introduce yourselves and briefly describe the purpose of the practical/demonstration. [3 marks]	
LUTs	Verify that the LUTs correspond to the correct wave shapes. Wave should have a frequency of 1Hz and range from 0-1023. [3 Marks]	
TIM2CLK	Ensure that the correct value for TIM2CLK has been used. [1 Mark]	1
TIM2_Ticks	Verify that TIM2_Ticks has been calculated correctly. [3 Marks]	3
Filter	Test low pass filter using Oscilloscope and function generator. Ensure that filter attenuated signals above the cutoff frequency. Signals below 5kHz should not be attenuated. [5 Marks]	
DAC	The 3 waveforms (sine, triangle, sawtooth) can be generated with frequencies up to 5kHz. [9 Marks]	8
PB The pushbutton can be used to cycle through the waveforms. [3 Marks]		1 Ka
General	Well-written, well commented code. Code uploaded to Git. Sensible variable names, functions in correct places etc. Overall preparedness for demo. [3 Marks]	3
A 25 TO 1	TOTAL	(大)



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