Feature Name	Feature Description	Images
Student A: Tze Han OLED Basic Task A	Enabled through menu (4A)  LED turns on for 3s after each button press  BTNU: Cycles through 5 stages  LD14: BTNU is ignored when LED is on	ADDITION OF AUDIT
Student B: Yan Zaiya OLED Basic Task B	Enabled through menu (4B)  LED turns on for 5s after each button press  BTND: Cycles through 4 stages  LD12: BTND is ignored when LED is on	EXCIDENT OF THE PROPERTY OF TH
<b>Team</b> AVI	Enabled through menu (4C)  Audio volume indicator  OLED: Combined visualization from basic tasks A and B  7-segment: Volume as digit 0-5  LEDs: Volume intensity	E SILIX B. B. B
Student A: Tze Han DTMF Classifier	Classifies DTMF tones using 32-bit fixed-point Goertzel Filter @ 20kHz sampling  OLED: Power visualization of each frequency bin 7-segment: Scrolling display of interpreted signals  LEDs: Index of symbol on the DTMF grid  BTNL, BTNR: Change width of bars  SW[0]: Toggles frequency overlay – visible (1) / hidden (0)	COUNTY SERVING
Student B: Yan Zaiya Stopwatch	Enabled through menu (TIME)  A stopwatch that counts in the form of XXX.YY seconds up to 999.99 seconds  OLED: Shows the split time (latest three) 7-segment: Shows the real-time stopwatch counts BTNU: Start / continue the stopwatch BTND: Stop the stopwatch BTNL: Split the time BTNR: reset the stopwatch and split time	ACTORIES EXLINX  DORFF DULLS  BEASTER

Team	<b>7-segment:</b> Task selection	
Menu Navigation	OLED: Task selection	AM BE
, and the second	BTNL, BTNR: navigate through menu	ADIGILENT
	items	C XIIIX
	BTNC: Select task/navigate to menu from	B. C. B. B. BASYS CO. Takes
	task	
		CEFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
<b>Team</b> Morse Code	Enabled through menu (MORS)	
Morse Code	Microphone samples morse code and	TO THE PROPERTY OF THE PROPERT
	classifies into respective symbols based	ADGITEN THE STATE OF THE STATE
	on duration of the beep (Farnsworth	Sendh eippi
	timing)	
	<b>OLED:</b> Text box showing previous	
	characters	
	7-segment: Last symbol converted	77
	LED[0]: Shows state of input	
	LED[15-2]: Shows dot/dash pattern	
	SW[0]: Toggle between input methods – microphone (0) / BTNU (1)	900
	<b>SW[15]:</b> Toggle between OLED displays –	
	decoded message( <b>0</b> ) / actual morse	BASYS3 DE DO DE
	code(1)	
	BTNU: Alternate input method BTNL: Clear OLED text	ar a
Team	Enabled through menu (LOCK)	
Menu Lock		Y O IN THE PARTY OF THE PARTY O
(Locking)	User can set a <b>4-character password</b>	ADIGUENT
	using the morse input methods shown above	EXULIX
	above	H.SEE GASYSS E E Kek
	<b>OLED:</b> Shows the interpreted characters	
	_	
	At confirmation screen,	
	BTNR: Confirm password BTNL: Re-input password	Confirm:
	2 The me mpas passivere	Cancel:
		#187
Team	When board is locked, the user must	
Menu Lock	enter the correct password using the	THE PARTY OF THE P
(Unlocking)	same input methods.	ADIGUENT
	Menu and the tasks cannot be accessed	EN LESS EN LES
	in this state	PRSS
		WRONG PASS
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