

Brief Feature Name	Feature Description	Images/photos
Dennis OLED Task A Bars + AVI2A (Marks for Dennis)	SW[13] = 0 : Hide all Borders SW[13] = 1 : Show all Borders SW[13] = 1 & SW[15] = 0 : Show all borders SW[13] = 1 & SW[15] = 1 : Hide all borders	
Dennis OLED Task B (OTB) Bars (Marks for Dennis)	SW[14] = 0 : Hide all bars SW[14] = 1 : Show all bars SW[14] = 1 & SW[15] = 0 : Show all bars SW[14] = 1 & SW[15] = 1 : Hide yellow bars only	
Dennis Audio Indicator Task 2B (AV2B) 7-segment display (Marks for Dennis)	SW[12] = 0 : Shows nothing SW[12] = 1 : Shows 0 to 5 on the first anode of the 7-segment display	
Dennis (Team) Audio Indicator Task 3B (Marks for Dennis)	SW[12] = 0 : Shows nothing SW[12] = 1 : Level 0: Completely black screen (No borders and no bars) Level 1, 2: Green border of task OTA1 and green bar of task OTB1 Level 3, 4: Contents of Level 1, 2, with orange border of task OTA2 and orange bar of task OTB2 Level 5: Contents of Level 1, 2, 3, 4, with red border of task OTA3 and red bar of task OTB3	

		
<p>Dennis Self-Improvement 1 Noise detector: Detects noise from (50db to 98db) (Marks for Dennis)</p>	<p>SW[11] = 0 : Shows nothing SW[11] = 1 : Displays the noise detecting meter on the OLED. Seven segments display the “loudness” In decibels.</p>	
<p>Dennis (Team) Self-Improvement 2 Traffic Light Sensor Displays Green Yellow and Red Colors on the OLED (Marks for Dennis)</p>	<p>SW[10] = 0 : Shows nothing SW[10] = 1: Display the status of traffic light on the OLED; There are 3 statuses: Green, Yellow and Red. Display a timer on using the 7-segment</p> <p>To simulate a traffic light: 60.0s -> 35.0s Green 35.0s -> 30.0s Blinking Green and White 30.0s -> 25.0s Yellow 25.0s -> 00.0s Red</p>	