EEE3097S 2023 ASSIGNMENT 3: DEMO MARK BREAKDOWN

Demo dates	5th Oct 2023 | 12th Oct 2023
Demo times	14:00 – 16:00
Grade Scale:	Points (max 20.00)
Group	
Date	
Tutor	

		Mark
Pi Synchronization	Effective method to synchronize the start of recording on both Pis	
	Clear demonstration of synchronization	
Signal Acquisition	Correct configuration of I2S interface for the MEMS microphones	
	Successful acquisition of stereo data from the microphones	
	Proper storage of data for further processing	
	Noise level handling	
Time Delay Estimation	Choice of appropriate algorithm	
	Correct implementation of chosen method	
	Ability to consistently estimate time delays across different acoustic source locations	
Triangulation	Choice of appropriate algorithm	
	Correct implementation of chosen method	
	Accurate computation of source location from time delay estimates	
	Handling potential multiple solutions or errors	
User Interface	Clear visual presentation of source location results	
	Ability to start/stop the system	
	Intuitive layout and design	
Overall System Integration and Performance	Seamless operation between subsystems	
	Consistent and accurate results over multiple demonstrations	
	Ability to handle variable locations	
	No noticeable glitches in processing	
	Total	