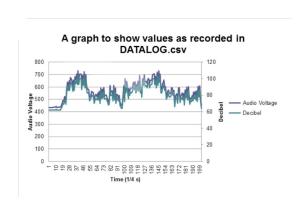
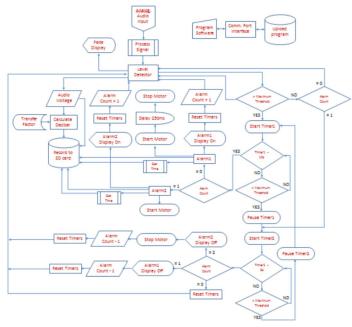
Circuit/Software Development





Alarm	Time	Audio Voltage	Decibel
	(Data continued	after A1 triggered)	
		435	62
		435	62
		436	62
A1 X		436	62
		436	62
		438	62
		701	100
		749	107
		728	104
		716	102
A1	00:02:01	716	102
		684	97
		705	100
		692	98
		664	94
		698	99
A2	00:02:12	695	99
		700	100
		688	98
		710	101



Fully developed with Arduino prototyping boards and a mix of C, C# and C++; the structured text language used by Arduino.

Operation:

- 1. Recieves noise and simultaneously logs the decibel level and illuminates a number of LEDs depending on the level every 1/4 second onto an SD card.
- 2. If predetermined noise level is exceeded for more than 10 seconds an alarm is activated.
- 3. If the noise level is still too high after another 10 seconds another alarm is activated.
- 4. If the noise level decreases below for 5 seconds then one alarm is cancelled in sequence.