Sound Locator Part 2 - Task # 759: Weekly report for period Oct 2- Oct 9

**Status:** New  **Priority:** Normal
**Author:** Ali Javed  **Category:**
**Created:** 10/09/2012  **Assigned to:** Ali Javed
**Updated:** 10/09/2012  **Due date:** 10/09/2012

**Subject:** Weekly report for period Oct 2- Oct 9

**Description:** During this past week, we worked on the tools required for the database. We choose the location where we will construct our database. This required us to rearrange a few things (tables, etc) in the room next to the Design lab in Erad building. We accurately measured and marked a 10 x 10 feet area with tape, this will enable us to easily create the next part of the database construction. We now know exactly all the coordinates in 2 dimensions.

Meanwhile I have researched and came up with the basic pseudocode for the database inside of matlab. I am planning to make the coordinates of the values part of the array. So, in a 9 X “1000” dimension array, the first 6 elements will represent the time-delay values, with value 1 representing Mic A-Mic B, Value 2 = Mic A-Mic C, Value 3 = Mic A-Mic D, Value 4 = Mic B-Mic C, Value 5 = Mic B-Mic D, Value 6 = Mic C-Mic D, Value 7 = “X” coordinate value, Value 8 = “Y” coordinate value, Value 9 = “Z” coordinate value...

And that will continue till the last value we measure for the data base.
I will write a simple code to increment the x values first, next y values, and last z values...

So, the database will be built, by getting time delay values for coordinate values 0,0,0, than 1, 0, 0, and then 2, 0, 0 and so on. till all values are captured. Then we will move to increment y values, and then z values.

The code will also conclude with a part to compute the euclidean values, and get values at position 7, 8, 9 in each array of the matrix.

For Next week:
1) Finish the hardware construction of the database tomorrow.
2) Twick the little errors in filtration and onset detation (Josh and Brunet)
3) Write actual code for the database.

---

**History**