There will be small robot which is capable of moving left-right, front-back. The user will call it by a name and the robot will reach him inside a room based on the user’s call.

• The whole ceiling will be divided into small blocks like a 2D matrix

• Each block should have a microphone at every corner of each box.

• When the user will call the robot, by using voice recognition we will check the level of all the blocks to determine the user’s position.

• The robot will communicate with the main computer via Bluetooth to know its movement.

• The robot uses encoders to determine its movement.

* We are using windows/linux PC for central processing.
* Microphone (A lot of them )
* Arduino Robot which will be the voice follower connected with Bluetooth with the pc (This includes: encoder motors, tracked wheels, Arduino uno, Bluetooth hc04, servos-pan&tilt, sonar sensor-object avoidance(optional))
* For medical Support
* Home Assistance
* All the sectors where there is a use of indoor positioning,

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