

Project Title : FoundYou Chip Project

MOTIVATION :

Unless we are at home where our mom can find everything, it frequently happens that we forget where we just placed our things and have a hard time finding the same. This fact motivated us to build our FoundYou Chip project.

WHAT IT IS ABOUT:

We plan to make a chip which can be stuck or attached to some object which we think we can lose. When we are not able to find the object we open the app in our mobiles, it shows the signal of how near the object is and also the directions to the object. When the signal strength is full we press a button called find in the app and the chip will start ringing so that we can follow the sound and pick up the object.

BROAD VISION:

On the broad scale, we can make the app to be a large lost and found network. If the user was not successful to find the object using the chip, we mark the object with the chip as lost on the app, the other users who are in the nearby area of lost chip will then be able to start seeing this chip marked lost and help find the object with the chip and return to the user. Also more features can be added to the chip so that it can be attached to any kind of object regardless of its texture, size, shape.

DEMONSTRATION:

At the final demonstration, we aim to demonstrate how the signal varies in the app as the user varies the distance from the chip and how the app shows us the directions finally when the signal is full, how the chip will ring when we press the find button.

TIMELINE:

Week 1:

- To learn basics of solidworks.
- To learn basics of ANDROID programming.
- To learn basics of AVR programming.
- To learn basics of eagle board circuit designing.
- Getting required parts

Week 2:

- Writing Android program.
- Writing AVR program.
- Interfacing AVR with bluetooth module and buzzer.

Week 3:

- Designing the circuit.
- Designing the outer case of the chip using solidworks and printing it.

Week 4:

- Testing and Debugging.
- Ensuring proper co-ordination of the app with bluetooth signal and the buzzer.

Week 5:

- Giving final touches to the project.

Week 6:

- Final testing of the project.

SKILLS LEARNT:

At the end of this project, we will be able to learn things like making an android application, solidworks, avr programming, circuit designing etc.

ESTIMATED COST:

The estimated cost of the project is around 3k-3.5k rupees.

TEAM MEMBERS:

Shruti Hiray
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