Smart Helmet

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Overview :

We would like to make a helmet which is connected to smartphone that enables easy navigation(gps tracking),answering of the phone calls.Infact it also includes music streaming and some voice activated controls.

Easy navigation is done using the audio instructions that are inherited through the smartphone.

Components Required :

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1)	Bluetooth Module HC-05
2)	Arduino UNO

3)	Speaker System
4)	Microphone
5)	Battery source

Implementation Steps :

I. 1st&2nd Week :

Designing and installing speakers and microphone circuits and get configured to the wireless bluetooth module. We are thinking of making an app which monitors specific functions like gps navigation,phone calls,music streaming as such .

Mostly this app gets completed in this week or later.

II. 3nd Week :

We will learn about speech recognisation software and will get it installed.

III. 4th Week :

Learn about the coding aspect of the wireless bluetooth module.

Probably make GPS navigation done.We either make the saved maps or use the tracking of smartphone based on time constraints.

IV. 5th Week :

We will develop the prototype of answering of calls and music streaming (i.e by coding of module). Debugging of the code and affix the problems still prevailing in it.As this week being easy-peasy we be trying to do additional objectives of project.

Concepts :

1. To learn and generate the configuration of bluetooth connection.
2. Arduino usage and coding aspects related to speech recognition.
3. GPS Tracking.
4. Android App development.
5. Speech controlled triggers.