**“Aerial Street view for Maps”**

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Abstract:

In this project, basically a good aerial view of places with their GPS locations are saved in server. We set a video camera on a drone helicopter and takes aerial view of places. Then the frames of video of that place are sent to the data base server along with its GPS coordinates. After having sufficient data on our database, we can make use of it by creating our maps. Since google maps have satellite cameras, having poor quality of image at street level, we will be able to help them to have a good street view.SS

Working:

In this project, we will be using a Remote Controlled drone which will be connected by a camera good enough to capture photos/videos of the land below it. We will be using an arduino chip to configure the drone with laptop (and if luck is on our side to smartphones via an android app) and will control our 'little yet effective' drone through it instead of the provided remote control. The basic functionality of our drone will be to capture videos/photos at regular time intervals and send these videos to our database where they'll be tagged with their respective geographic coordinates(  a GPS module will also be connected to our drone). These after processing will provide the purpose of aerial surveillance and as a street view which can also be sent and connected with Google Maps for further advancement.

Scope of Project:

The data generated by our project can be used in various fields. We can send it to google maps for betterment of their street level view. It can be used for surveillance, investigation purpose, maps making, etc

Equipment:

* Drone Helicopter
* HD video camera
* GPS module
* Arduino
* Others

Expenses:

RS: 10,000/ Approx.