

DESIGN AND IMPLEMENTATION OF LIFE SAVER DRONE

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DESCRIPTION

The main idea of this project is to make use of drones to save more life. Here drones were used to reach the victims of accidents to check their health status initially to provide the necessary treatment to that person. Design of the drone was made in such a way that these process to take place automatically. People in need will be calling or messaging to the emergency number and their location will be obtained and drone will be moving to them to provide initial help. This

could take place either using mobile application or by using a separate location finder device that could be attached with watches. GPS location of the victim will be obtained using GPS module and will be transferred with the help of GSM devices and that location will be obtained in the base station.

Here the information obtained through GSM module will be having the latitude and longitude information and this will be used to find the exact location of the accident place with the help of satellite maps available. This location will be transferred to drone in wireless way using telemetry kit. Initial location of drone will be taken as the home location and the location of accident zone will be the landing place of the drone which will be taken as the destination location of the drone. Now the initial distance of the drone and the bearing angle will be calculated. Then the drone will start to move along the direction with a calculated bearing angle. Now the real time location will be obtained continuously using GPS and continuously distance is calculated. When the distance is zero the destination location the drone will be reached. When it reaches the patients drone have some sensors like temperature and ECG sensors that will be connected to Patients body to check their health status and these information will be transmitted to nearby ambulance and hospitals. These drones serve not only for medical purposes even for security and surveillance process also.

