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Inter-vehicle communication for smart traffic environment

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Abstract : In the medical field, the most important thing is to deliver the patient at the right time to the right place, in which further delay can cause fatal consequences. In a busy traffic, the concern is the one with higher priorities should be allow to go first i.e., emergency vehicles like ambulance or fire brigade. Imagine the situation like the ambulance receiving the patient from remote area will have to travel through a busy traffic till hospital and after reaching, the patient's condition have to be checked and make many specific arrangements. Since in medical field saving of very short period of time can change the situation of a patient. Here the ambulance carries a Raspberry pi interfaced with GPS, data card, RF transmitter, camera and Graphical Interface keyboard in which by the mean time the patient is brought to the hospital all the required information, conditions and images of the patient will be filled to a database and software designed using PHP and server in Raspberry Pi, so as arrangements of equipments and specialist can be made at the hospital before hand by accessing the same database. The Ambulance can transmit RF signals to the nearest traffic signal so as to make way in a specific direction. And in future when each vehicle will be in-built with raspberry pi interfaced with GPS, GSM and receiver for many purposes like security, accident alert, etc., they will be receiving alert message via RF or other wireless means when they are been approached by any emergency vehicle. And location with a message will be send to the authority if met with major accidents.