**Smart Casualty Management through IoT**

**Problem Statement**

Road accidents claim a number of lives. Emergency healthcare is something that is of prime importance world-wide as even a slightest delay can risk lives in such situations. In case of accidents the EMS are first reported by someone with the mishap occurred and then the procedure starts. This has a dependency on a third person who will report the incident. What if in future we have only self-driven cars and if there are no people around how easily will the accidents be reported.

**Project Statement**

How convenient would it be if instead of a person calling the EMS and police every time an accident occurs, we have a car sensor which determines an accident and reports with the details of location and intensity of impact? This will reduce the delay in starting the treatment. How about the person having a band sensor that determines the vital signs and the ambulance operator can scan every detail through it, provide preliminary treatment, and send details to the hospital so that someone there is already prepared for the treatment. At the same time ambulance also sends an ALERT to the patient’s emergency contact.

I plan to divide the project into four main organizations at different levels based on the 4 stakeholders’ viz. vehicle, person, ambulance and doctor. And to have 3 roles person, ambulance operator, doctor.

1. Person: This gives the user opportunity to update the details, emergency contact as well as view medical history.

2. Doctor: This gives the user opportunity to view all the requests in the queue and update patient medical history.

3. Ambulance operator: This gives the user opportunity to send request to hospital and update the preliminary treatment given.

**References:**   
<http://www.iot-a.eu/public>  
<http://www-935.ibm.com/industries/electronics/iot/>

**Acronyms:**

EMS – Emergency Medical Services