

Automatic Fire Fighting Mechanism

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ABSTRACT

Fire-fighters are best known extinguishing fire, even so there is actually so much more to a fire-fighter's job. Not only do they save lives and fight fire, they also respond to any emergency situation, even providing medical services. However, being a fire-fighter is not an easy task. The working environment is dangerous, making fire-fighting a high risk occupation. Statistics have shown that between the years 1977 to 2012, there is a total of 4410 on-duty firefighter fatalities. (Apps.usfa.fema.gov, 2015)

The inspiration of this particular projects comes from the statistics discussed above. An idea to create a model car has come up. The project is basically a mobile car attached with a water pump and a water tank which is able to sense an increase of temperature by using a temperature sensor and automatically shoot water via a hose connected to the water pump.

There are basically three major steps in this project, which are the construction, the assembly of electrical components and programming. Test runs have been carried out to ensure the smoothness and success of the project. It is lead to believe that if the model is to build in a bigger scale by using advanced technology, the use of men as firefighters can be lessen, hence the deaths of firefighters will decrease as well.