The Raine Sensitive High Way

Alyousfi, Musab

After the Industrial Revolution, the world has witnessed a significant development in the automotive industry which in turn has produced large numbers of the types of cars that compete in the specifications of luxury and high-speed, which in turn caused an increase of traffic accidents around the world, especially in severe weather like rainfall or fog or dust-laden wind gusts. Studies and scientific researches have shown that the water presence on the road surface doubles the rate of traffic accidents where it is difficult for the driver to control a vehicle causing sliding. From this perspective the idea of our project has been originated that we aspire to contribute to reduce the traffic accidents caused by sliding vehicles ratio during the rainfall or the difficult vision to track the way. The general idea of this project is an electronic circuit controls the three important parts of the highway; a radar, lamps lighting the way and the electronic plates which determine the legal speed. When rains fall on the roads ,the water sensor on the radar roof will send a signal to the processor in the circuit, which in turn will send three separate signals as follow: The first signal: - gives a command to lighting lamps to operate in order to facilitate the vision of the driver of the vehicle through the road. The second signal: - gives a command to the electronic plates to determine the speed limit on the road in order to reduce the speed limit displayed in proportion to the amount of rainfall. The third signal: - gives a command to the radar so that the legal speed at which adjusts violators changed so as to be identical to the new speed offered by the panel speed We believe that the idea of our project will greatly contribute to reducing traffic accidents .

Awards Won: