

Description

A Rapid Warning & Evacuation System (RAWES)

Every day I read about the loss of human lives when there was a fire, gas or chemical explosion, terrorist attack in a building to name a few. In many cases it's because people were not able to evacuate safely to an escape zone. Many died of burns, inhaled toxic gas or gun shots. When such a disaster happened usually you hear the fire alarm, siren or public address announcement but not knowing where was the disaster located and where was the escape route. Many lost their lives because of the lack of these information. These catastrophes sadden me but also gave me the idea to develop a rapid warning and evacuation system (RAWES in short).

RAWES is to facilitate the rapid evacuation of people in a building or any structure during a disaster such as fire, toxic chemical discharge, explosion, unsafe building/structure, etc.

The system comprises of multiple LED display panels and the evacuation control software (ECS).

The display panels will be installed along the corridors on the wall or any other strategic locations according to the routes of an evacuation plan.

The LED panel displays an arrow moving towards the location to evacuate. It's connected via UTP Cat6 with or without POE. It comes in varying colours to differentiate the level of safety from the hazardous area. Example **red** to represent danger zone, **blue** is safe zone and **green** is escape zone.

The computer system comprises of a POE or non-POE switch router, an interface controller and a computer. The ECS is programmed to create the evacuation route.