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FINAL REPORT:

AUTOMATIC FIRE ALARM EXTINGUISHER

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ABSTRACT

The project title Automatic Fire Alarm Extinguisher is a project which consist of the temperature sensor, smoke sensor, buzzer, LED, GSM SIM900, water pump and others. Roughly this project consist of two part that are fire alarm system and the GSM system that sent the message to owner. For the information this project use two sensor that is temperature sensor and the smoke sensor. The PIC16F877A was used to make the connection complete. This system has their advantage and disadvantage. The advantage of this system is to make the people more alert to the fire and can take the action quickly. This also make easy to the owner to know that his house in fire. So, he can take some quick action by save the important document or call the fire department. However, this also help when there nobody at house while the house is getting to a fire. The water pump will be on as the extinguisher to extinguish the fire. One of the disadvantages of this project it needed power source to work. If the user's house is running out of electricity or having a total blackout, this project will come to no use. Next, this project needed some precise and specific components to make it run. Any kind of unneeded components will make it not functioning as it supposed to be.

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CHAPTER 1

INTRODUCTION

1.1 Background of Study

Nowadays, when a house in fire people usually call the fire department and report the accident happen. When the firemen arrived, the house could be totally burn or the fire grow bigger and make it difficult to control and takes a long time to extinguish the fire. Some of brave people would use small amount of water and try to control the fire. It must have a lot of water and people. It also dangers to the people that do so. It also make the people in the house in danger too when they did not alert that their house in fire. Lives and important things can be gone with the fire in a blink of an eye if this kind of accident happened.

A few conventional method had been used by people around the world for centuries to extinguish fire back then. For example before the World War II where the technologies are considered lower than the present, so does the fire extinguisher method. People will use the manual ways to extinguish fire before the existence of fire extinguisher. The manual ways are usually consist of usage of water such as throw a bin of water to the flame part using a container or any bin that can store water in it. After water hose are created fire extinguishing are getting easier to be done as water hose can be connect the water from various distance from the water pipe. These methods are still been used in this present years but those methods are only effective on the small fire. And the situation might get worse if the house was on fire during the house was unaccompanied.

This project purpose is to create an automatic fire alarm extinguisher. It will make the house more secure and save for those who live in it. This fire alarm extinguisher can also be applied to any kind of building for security purpose such as an industrial company. This project also can easily alert the people about the fire and the people can rush away from danger and get the important document with them to the safety. The automatic extinguisher will control the situation and put down the fire while waiting the fire rescue department to arrive. This also can help the firemen to put down the fire.