

TEAM ID	PNT2022TMID40213
PROJECT NAME	INDUSTRY SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM.
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ABSTRACT:

Wireless sensor networks are being developed for high-rise buildings. In order to suppress fires as soon as possible, many detectors that regularly measure smoke or temperature concentration are installed in buildings. Observation center ride.-Organize hierarchical wireless sensor networks. The test results of the prototype system show that the automatic fire alarm system meets the design requirements. The project mainly includes the development and implementation of monitoring and fire extinguishing systems based on wireless sensor networks. The fire monitoring system continuously monitors the environment and records the registered temperature and intruders detected by the monitoring nodes. Once the fire extinguishing system detects a fire or the temperature exceeds the allowable value, it will activate the fire extinguisher. A certain threshold achieved by the extinction node. The results show that the overall performance of the method is very good.

INTERNET OF THINGS:

The internet of things describes the network of physical objects. Things that are embedded with sensor, software and other technologies for the purpose of connecting and exchanging data with other device and system over the internet .

This device range from ordinary household objects to sophisticated industrial tools . with more than 7 million connected Iot device today , experts are expecting this number to grow to 10 billion by 2020 and 222 billion by 2025.

APPLICATIONS:

- Building smarter cities.
- Innovating agriculture.
- Integrating smarter house ,

OBJECTIVES

- Study the working principles of smoke and fire alarm systems.
- Design a cheap fire alarm system based on microcontroller.
- Design an automatic fire alarm system to protect users and the environment. 4. Create a simple fire alarm system. Use a fire alarm system.
- Make people's lives easier
- Design a prototype fire alarm system with smoke detector as input and buzzer and text message as output. Arduino Uno card, embedded system: NodeMCU, smoke sensor (MQ2), cable connection, red and green LED, power supply unit, buzzer, LCD