

PROBLEM STATEMENT:

1.What does the problem affect?

A gas detector can sound an alarm to operators in the area where the leak is occurring, giving them the opportunity to leave. This type of device is important because there are many gases that can be harmful to organic life, such as humans or animals.

2.What are the boundaries of the problem?

Wireless communication protocols play a vital role in present trends. Bluetooth, WI-Fi, Zigbee, LORA etc., we use one of the best feature of smart phone, i.e., the Bluetooth technology to control and monitor parameters driven by a robot.

3.What is the issue?

It helps to avoid mistreatment of human inspectors in probably dangerous environments. However, before readying in industrial settings, more development is needed (e.g., in explosion protection, package development, etc.), and in fact legal problems should be processed before readying in business settings. Still, it is certain that an autonomous, mobile gas detection and leak localization robot is possible today and can significantly enhance safety .

4. When does issue occur?

Whenever there is an occurrence of gas leakage in a particular place the robot immediately read and sends the data to android mobile through wireless communication like Bluetooth.

5.Where does the issue occurring?

- Industrial setting
- Household
- Hotels
- Automobiles

6 .why it is important to fix the problem?

Gas leak can increase the risk of fire and explosion since it spreads quickly and combusts easily. An electrical spark or fire source can set this off if you have a leak in your house.