

### PRESENTER;



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#### STUDENT

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# HAZARDOUS GAS DETECTION WITH IOT

AS THIS WORLD IS RAISING IN THE DEVELOPMENT OF TECHNOLOGY AND THE HUMAN RACES, THE SURROUNDINGS IN WHICH WE LIVE IN ENDANGERED WITH BLACK SMOKE, GASES AND SOME SORT OF CHEMICAL THAT WOULD HARM OUR LIFE.



# **PROBLEM STATEMENT**

Gas detection time (LPG and NG) A fire that can cause an explosion

Least sensitivity to small gas leaks Oleh Kalbana Perimbanayagam dan Hasbi Sidek



UTAMA

#### Bakal pengantin melecur, tong gas memasak meletup [METROTV]

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KEADAAN rumah wanita di Taman Sena Permai selepas gas LPG meletup, hari ini. FOTO Danial Saad.

Tasek Gelugor: Wanita melecur hampir keseluruhan badan selepas tong gas petroleum cecair (LPG) meletup di sebuah rumah di Taman Sena Permai, di sini, 8 pagi tadi.

Ketika kejadian, mangsa yang berusia 26 tahun dilaporkan ingin menggoreng ikan sebelum gas memasak itu tiba-tiba meletup hingga memusnahkan rumah dua tingkat didiaminya. KEADAAN di dalam kedal dobi layan diri 24 jam di Jalan 3E, Bandar Putera 2, Klang, selepas letupan di premis berkenaan yang menyebabkan dua beranak cedera, hari in: FOTO ihsan bomba.

DUA beranak kedai dobi layan diri 24 jam melecur selepas berlaku letupan di premis berkenaan di Jalan 3E, Bandar Putera 2, Klang, hari ini.

Penolong Pengarah Operasi Jabatan Bomba dan Penyelamat Malaysia (JBPM) Selangor Mohd Rizal Buang berkata, mereka menerima panggilan kecemasan pada 8.55 pagi sebelum sepasukan anggota dari Balai Bomba dan Penyelamat (BBP) Andalas tiba di lokasi kejadian, 10 minit kemudian.

"Selepas memeriksa premis, kami mendapati letupar berlaku di bahagian simpanan tangki gas di dalam ubang seluas 3 meter persegi.

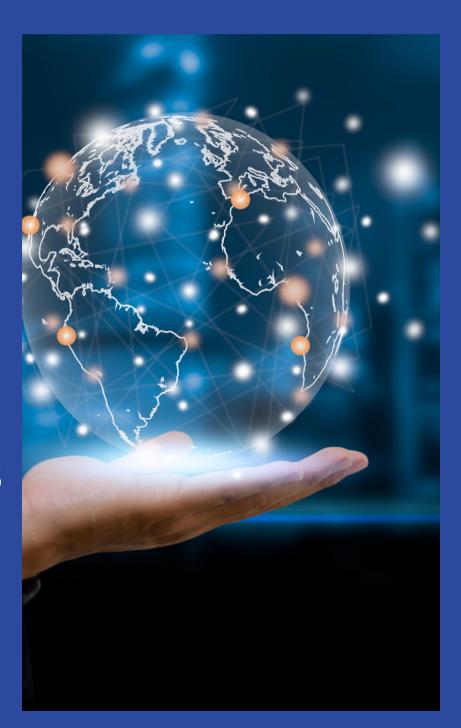
## **OBJECTIVE PROJECT**

TO DESIGN MICRO-CONTROLLER SYSTEM DETECTOR AND ALARM TOWARDS LPG AND NG.



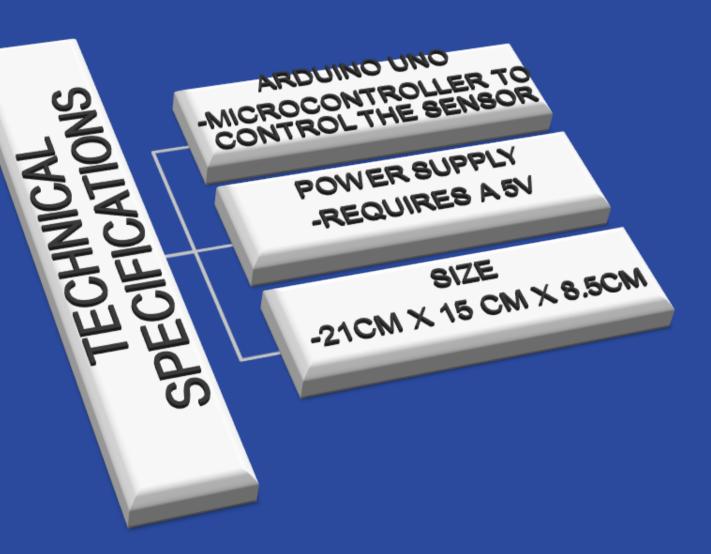
TO DEVELOP A PRODUCT USING AUTOMATIC ALARM SYSTEM AND CONTROL SYSTEM TO PREVENT THE GAS LEAKAGE TO SPREAD OUT BY USING MIT APP INVENTOR.

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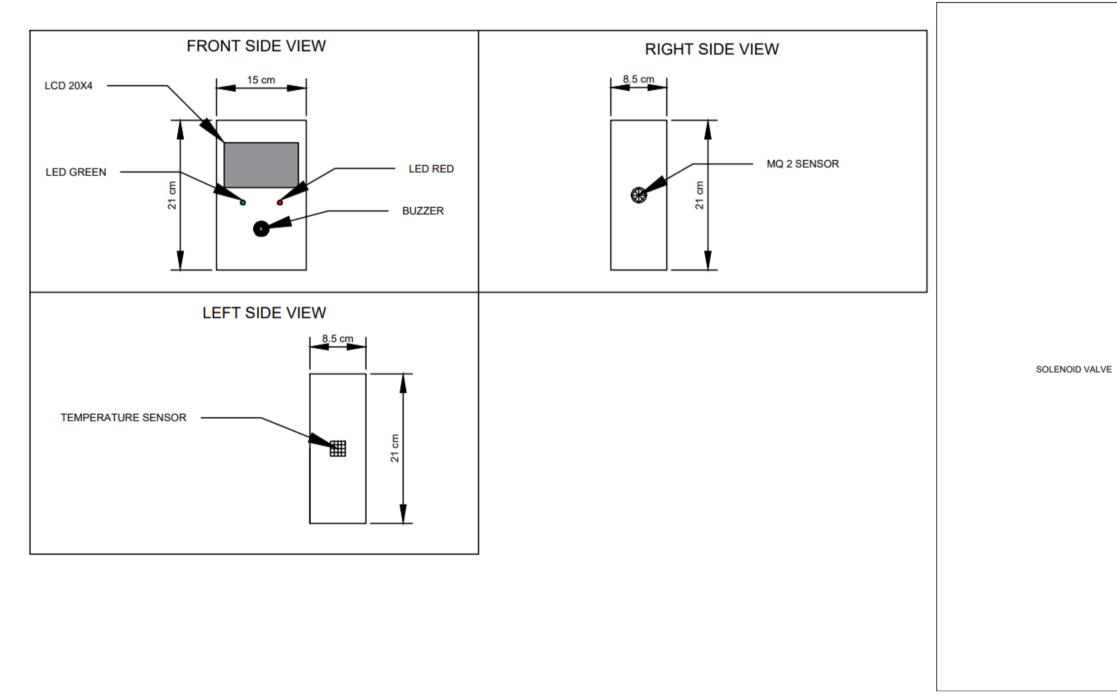
## SCOPE PROJECT

DEVELOP A GAS DETECTOR ONLY FOR TWO TYPES OF GASES, WHICH IS LPG AND NG. THIS SENSOR ONLY DETECTS A GAS AT TIME AND THE CONCENTRATION SCOPE IS 200-10 000 PPM. THE TYPE OF THE MICRO-CONTROLLER THAT WE USED IN THIS PROJECT IS ARDUINO UNO THAT SUPPORT 5V POWER SUPPLY.



## DRAWING

#### **PLAN DRAWING**



#### **SCHEMATIC DRAWING**

