

# MOTION DETECTION

Prepared for: Nouf Rahemy





# INTRODUCTION

Sensors are considered an essential part of data acquisition systems that allow computers and smart devices to understand and perceive the surrounding environment to carry out complex tasks similar to how humans sense the environment around them.

On the other hand, sensors are an important part of the Internet of Things, which greatly helps in monitoring data from industrial machines and the use of that data in proportion to our daily interests.

# PROBLEM



All people have important things that need to be saved and protected. For example, a treasury, a room, a car, or even a house. And hiring people to protect it would be expensive and impractical. Therefore, the best solution to such a problem is IoT.



# SOLUTION ?





The best solution to protect our important things with the least cost is to use sensors.

By using motion detection sensors, we are assigning a device to protect our things.

The idea is to program the sensor to detect any suspicious move, and when detecting the motion, the sensor must immediately turn a led on, and send an email to the user that there is a motion has been detected.

# COMPONENTS:

- IR motion sensor
- NodeMCU
- Breadboard
- LED
- Resistor
- Buzzer
- Wires
- USB cable



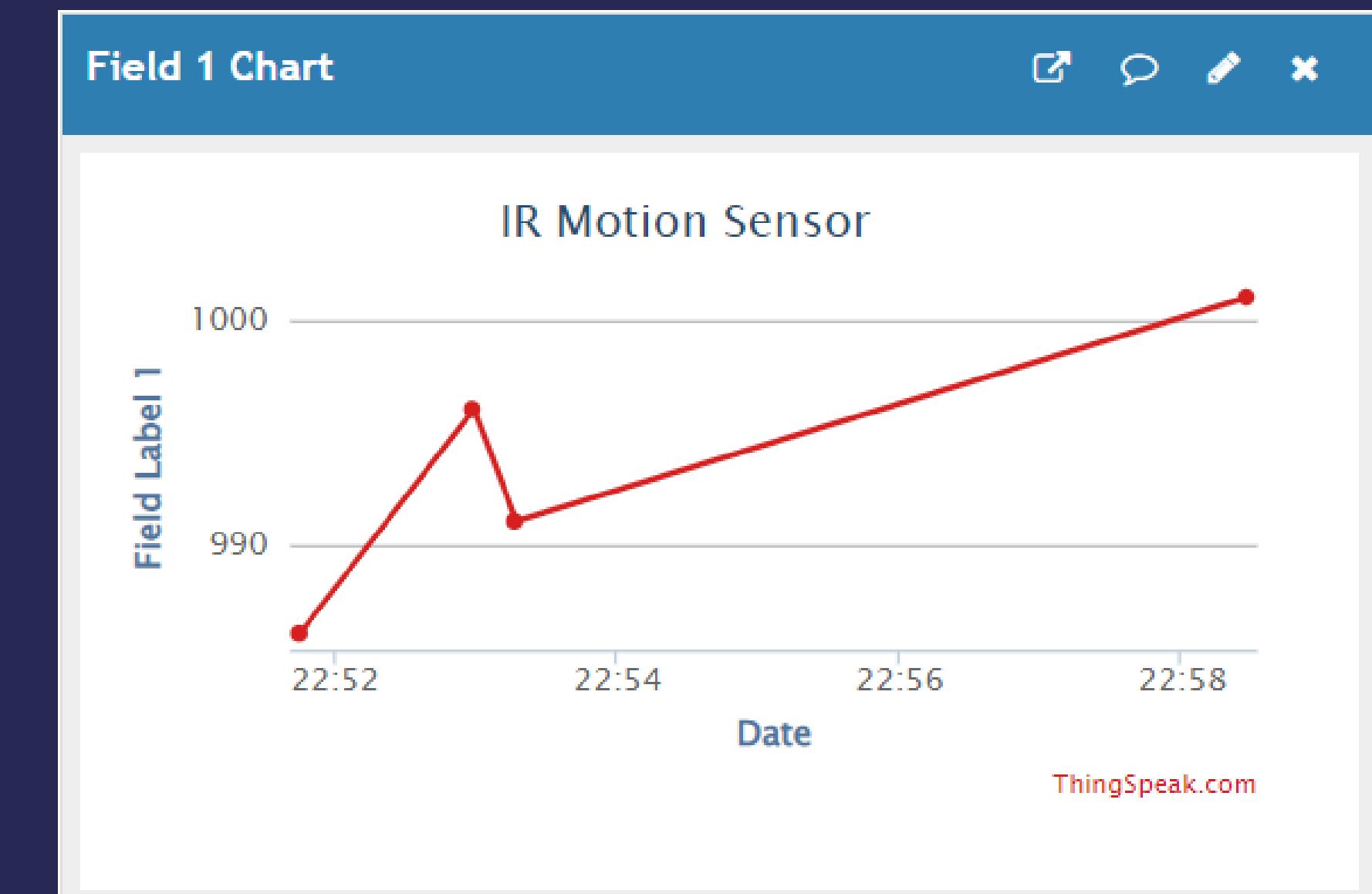
# THINGSPEAK

## IR Motion Sensor

Channel ID: **2168344**

Author: [mwa0000030283127](#)

Access: Private



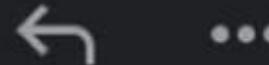
# IFTTT

motion sensor Inbox



Webhook... 10:50 PM

to me ▾



Motion detected !!



Manage >

[Unsubscribe](#) from these notifications or sign in to  
manage your [Email service](#).

# IFTTT

# THANK YOU FOR LISTENING



# VIDEO





## PREPARED BY:

Lama Albakri	2010684
Joud Alshehri	2110281
Dania Aljedani	2112026
Rafal Amir	2113845