

The background features a dark grey gradient with several abstract elements. In the top left, there's a large, semi-transparent shape composed of a blue triangle on top and a green trapezoid below it. The bottom left contains a circular inset showing a detailed view of a printed circuit board (PCB) with various electronic components like resistors, capacitors, and chips. The top right corner has a pattern of concentric, wavy grey lines.

# The Internet of Things

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# IoT

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# Introduction to Internet of Things.

## What is the Internet of things?

The internet of things , also known as IoT is an interconnected network of devices and systems connected to the internet which talks to each other through an exchange of data.

## The Birth of IoT.

The actual term “Internet of Things” was invented by Kevin Ashton in 1999 during his work at Procter & Gamble. However the idea of connected devices has been around since the 70s. Back then, the idea was often called “embedded internet” or “pervasive computing”.



# Technologies that enable IoT.

01

Sensor and Actuator

02

Machine-to-Machine (M2M) Communication.

03

Sensor Network.

04

Radio-Frequency Identification

05

Near-Field Communication

Identification  
(RFID) ...

- 3.4 Near-Field Communication (NFC) ...

- 3.5 Wireless Sensor Network ...

# Impact of IOT

## Cons

1. Security issues such as being vulnerable to cyber attacks.
2. Loss of jobs as more things become automated.
3. Human beings becoming more and more dependant on technology and will lose manual skills .
4. Addiction of overusing technology and becoming disconnected with humanity.
5. Physical health decrease linked to exercising muscles when doing manual labor .



## Pros

1. Tasks getting done more efficiently with automation.
2. Convenience and allowing more time for users to spend on other activities .
3. Reduce wastage and save businesses as technology can analyse and perform risk management.
4. Boost economies as most innovation will consider being cost effective .
5. Eco-friendly by help preserving the environment and unsustainable resources.



# Future of IOT

IOT will advance over time as more and more data is collected to reduce biased outcomes. Giving the fair opportunity to all.

With technology taking over redundant work functions. Human's will migrate and move into doing more enjoyable work for a living, allowing a better work-life balance.

Stress levels will reduce leading to a higher life expectancy, because of a better quality of life.

The environment will thrive and will start recovering from previous industrial damages.

Technology law will become a new stream of study and career as the need for cybersecurity and legislation for tech companies will be crucial to society's safety.





# References

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Thank you!

