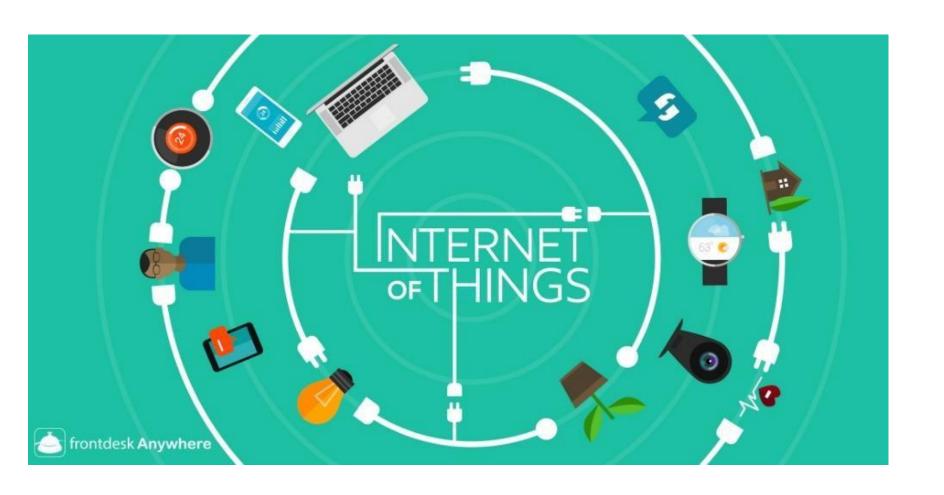


# INTERNET OF THINGS (IOT)







## WE EVOLVE BECAUSE WE COMMUNICATE



- 1. What is IoT?
- 2. IoT device.
- 3. Components.
  - a) MCU.
  - b) Communication modules
  - c) Protocols
  - d) Cloud computing
- 4. Programming language
- 5. Operating system
- 6. IDE
- 7. Use cases of IoT

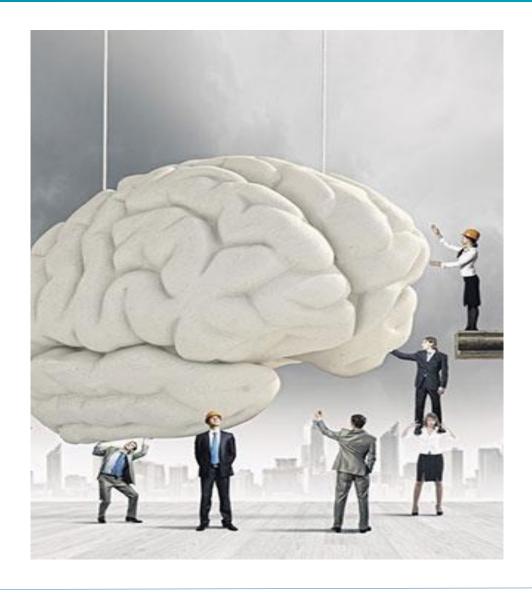
## Why it's time to take Internet of Thingsseriously

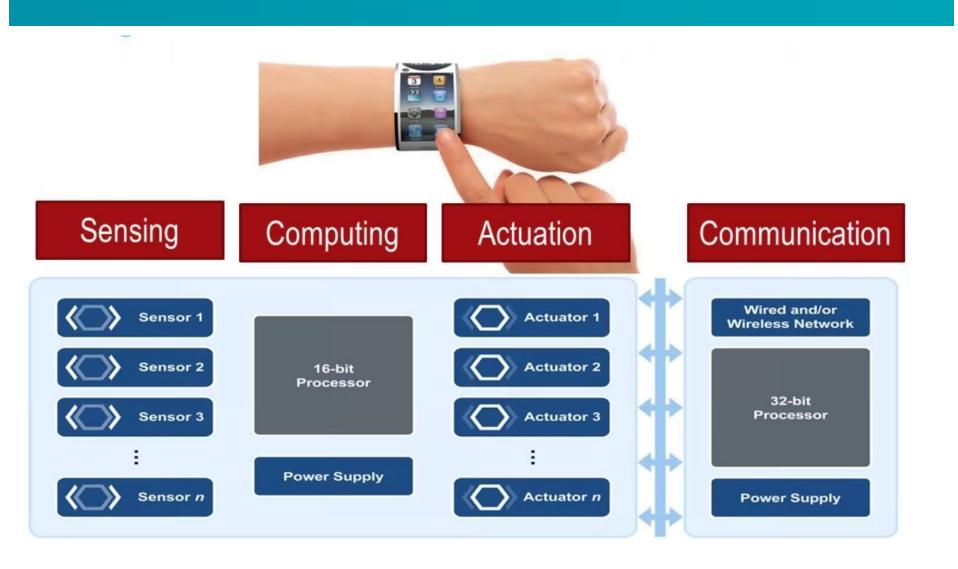
The internet of every thing will be 5-10 times more impactful in next decade than entire internet has been to date.

-Cisco CEO

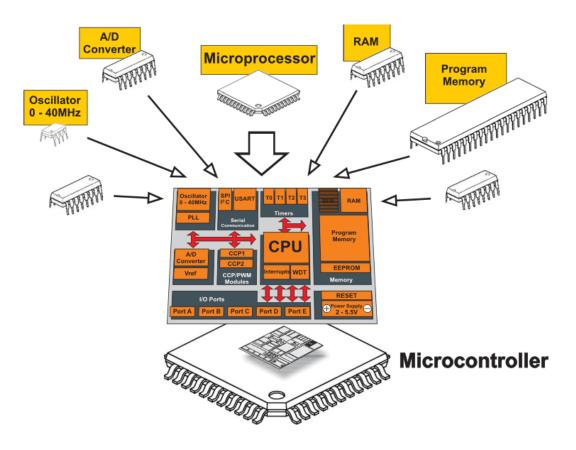


## WHEN THINGS START TO THINK?



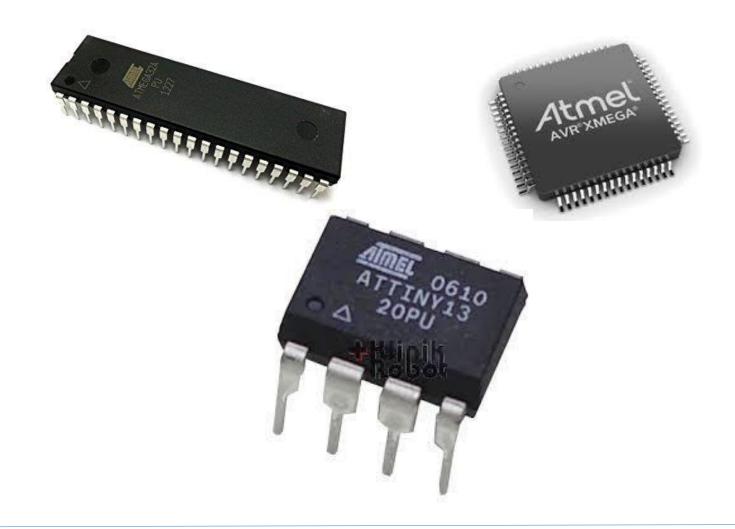


### WHAT IS COMPUTER?



- A SINGLE COMPUTER ON A SINGLR CHIP CONTAINING PROCESSOR, MEMORY, INPUT/OUTPUT
- TYPICALLY EMBEDDED INSIDE SOME DEVICES THAT THEY CONTROL

# Microcontrollers examples

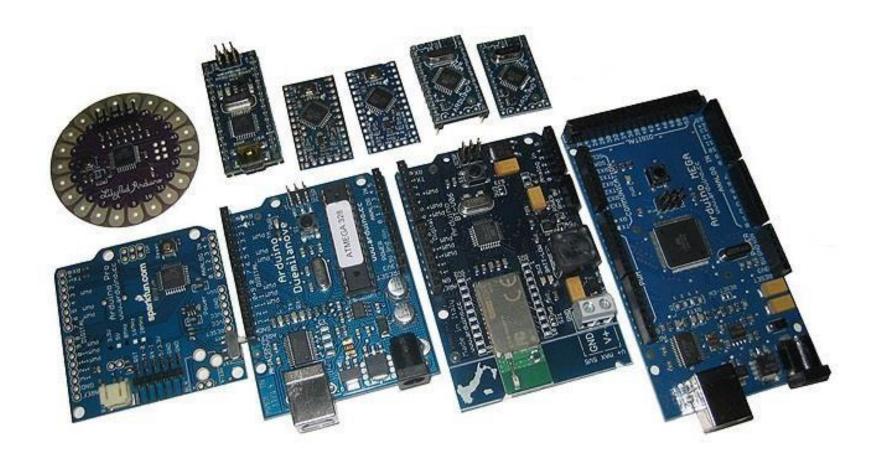


## **APPLICATIONS**

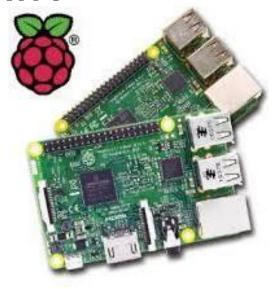
# **Examples of Embedded Systems**



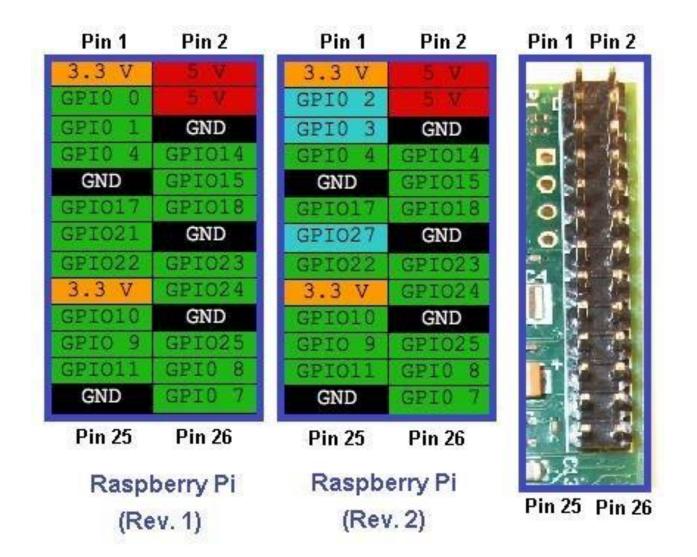
## **PROTOTYPING BOARDS**



# **RASPBERRYPI**







#### MCU PROTOTYPING PLATFORMS

- MCU PROTOTYPING PLATFORMS
- ENERGY EFFICIENCY
- EMBEDDED ARCHITECTURE WITH A RICH SOFTWARE ECOSYSTEM
- PORTFOLIO BREADTHTHAT ENABLES SOFTWARE SCALABILITY
- PORTFOLIO BREADTH THAT COSTEFFECTIVELY ENABLES
  DIFFERENT LEVELS OF PERFORMANCE AND ROBUST MIX OF I/O INTERFACES
- COST EFFECTIVENESS
- QUALITYAND RELIABILITY
- SECURITY

## **COMMUNICATION TECHNOLOGIES**

















IPv6-based Low-power Wireless Personal Area Networks







#### **CONTACT US**





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#### **THANK YOU**

