



ELECTRONIC'S

- Controlling of electron.
- Revolutionize modern world.
- Two types:
 - Analog Electronics
 - Digital Electronics
- Replaced mechanical systems & made simple.
- 1746 – Leyden Jar – Pieter Van Musschenbroek (Dutch Physicist)

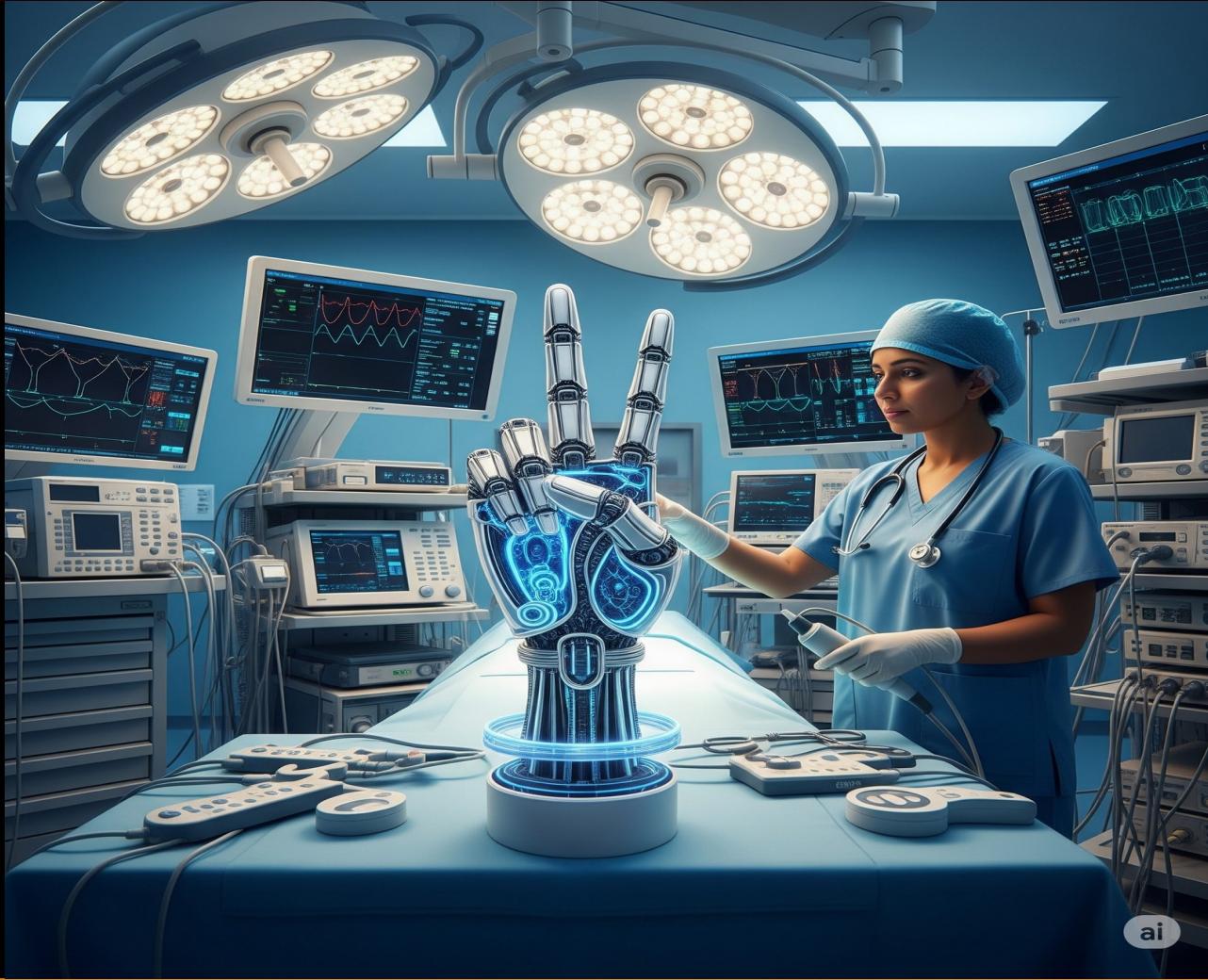


Machine think



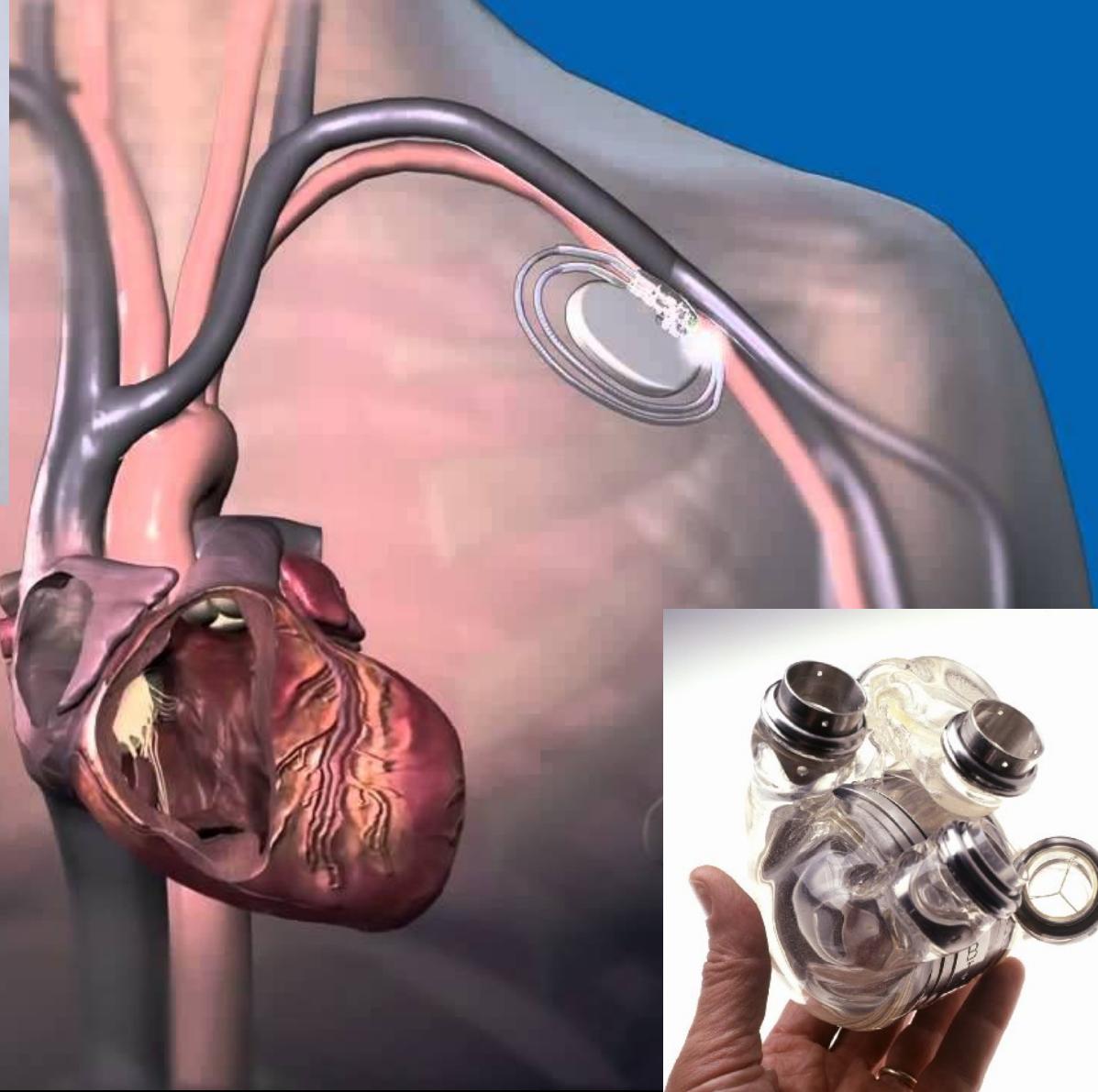
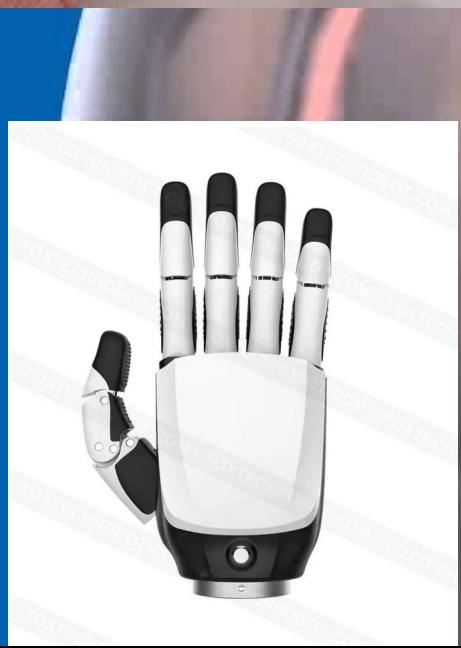


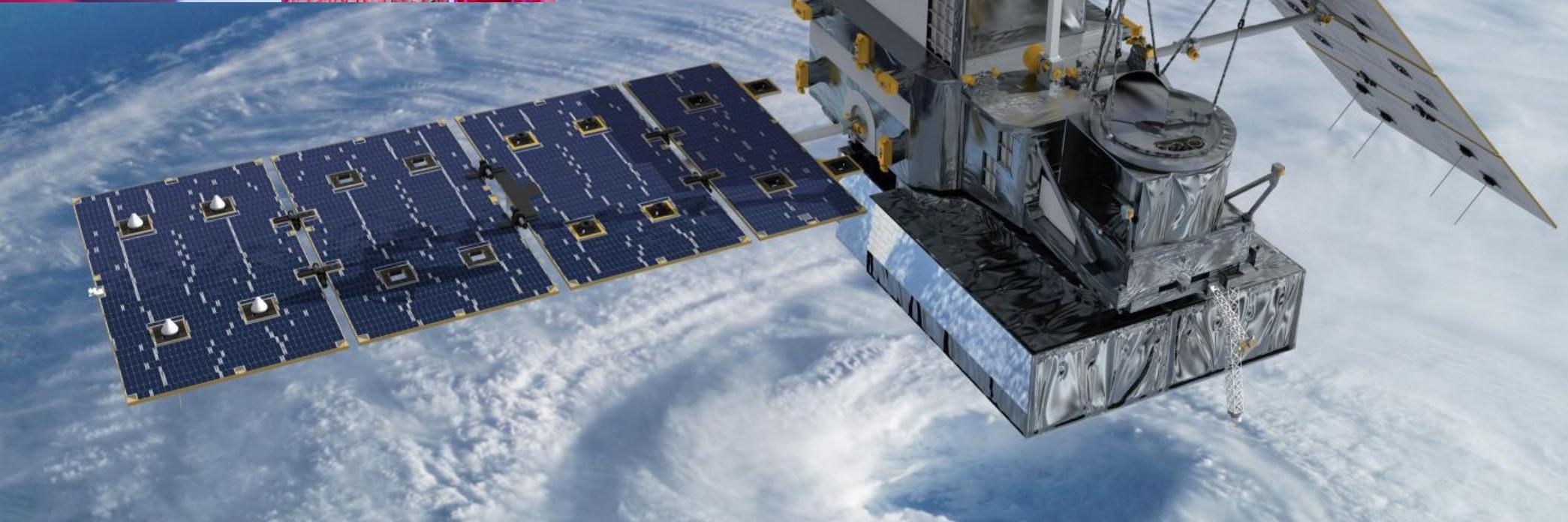
What actually?



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Active Components

- Supply energy; Amplify signals; Control flow.
- Requires additional power supply.
- Eg: Transistor, diode.

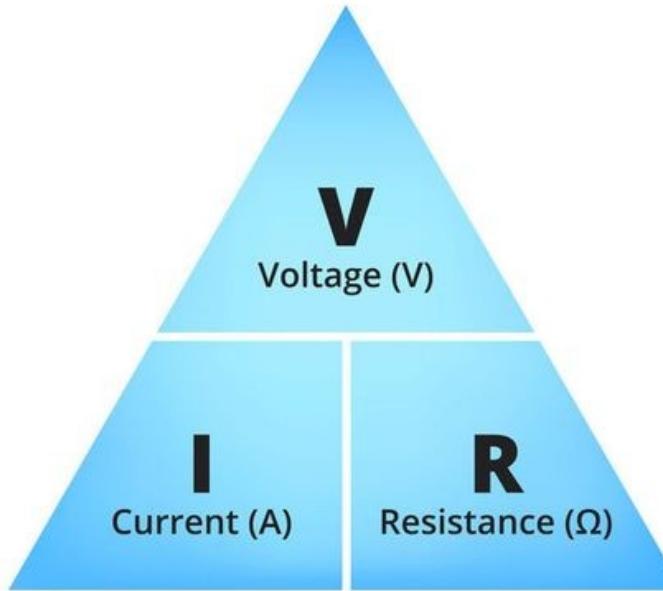


Passive Components

- Do not generate electricity; Consume; Store; dissipate.
- Additional power supply not required.
- Eg: Resistor, Capacitor.



OHM'S LAW



$$V = I \cdot R$$

$$R = V : I$$

$$I = V : R$$

Thank You

