

ELECTRONIC ENGINEERING HISTORY

Milestones that Shaped the Modern World

1831

Electromagnetic Induction

Michael Faraday discovers the principle behind electric transformers and generators.

1897

Discovery of the Electron

J.J. Thomson identifies the electron, establishing the foundation of particle physics and electronics.

1904

The Vacuum Tube

John Ambrose Fleming invents the thermionic valve (diode), enabling radio communication.

1947

The Transistor

Bardeen, Brattain, and Shockley invent the point-contact transistor at Bell Labs.

1958

The Integrated Circuit

Jack Kilby (TI) and Robert Noyce (Fairchild) independently develop the first microchips.

1971

The Microprocessor

Intel releases the 4004, the first commercially available single-chip CPU.

2004

Graphene Isolation

Andre Geim and Konstantin Novoselov isolate graphene, opening doors for nano-electronics.