

HISTORICAL OVERVIEW: DIGITAL TECHNOLOGY

1940s - 1950s

The Vacuum Tube Era

Development of ENIAC and UNIVAC. Transition from mechanical calculation to electronic processing using vacuum tubes and punch cards.

1960s - 1970s

The Microchip Revolution

Invention of the Integrated Circuit (IC) and the Microprocessor. Rise of mainframe computing and the birth of ARPANET.

1980s - 1990s

The Personal Computer & Web

Mass adoption of PCs (IBM, Apple). Introduction of the World Wide Web by Tim Berners-Lee and the shift to digital telecommunications.

2000s - 2010s

Mobile & Cloud Dominance

The smartphone revolution and ubiquitous high-speed internet. Transition from local storage to Cloud Computing and Social Media expansion.

2020s - Present

Intelligence & Decentralization

Integration of Generative AI, Quantum Computing research, and Decentralized Ledgers (Blockchain) into the global infrastructure.