5. Electronics

Timeline
1904  Sir John Ambrose Fleming invents the vacuum tube and diode.
1906  Lee De Forest develops the triode.
1934  Electronic hearing aid invented
1947  John Bardeen, Walter H. Brattain, and William B. Shockley of Bell Telephone Laboratories invent the transistor.
1950s  Germanium is used to make semiconductors in transistors. Late in the 1950s, silicon begins to replace germanium as a semiconductor material.
1954  The transistor radio is introduced and becomes the largest selling item of the time
1958  Jack Kilby of Texas Instruments invents the integrated circuit (IC).
1958  Robert Noyce develops an integrated circuit that can be miniaturized and reliably manufactured
1958  Seymour Cray at Control Data Corp. develops a transistorized computer
1961  Silicon chips first appear
1967  First handheld calculator using an integrated circuit is made by Texas Instruments.
1968  Robert Noyce cofounds Intel.
1970  The bar code system is created.
1971  Intel introduces its popular 4004 4-bit microprocessor, starting the evolution of Intel’s famous line of 386, 486, and Pentium processors
1971  First video game and video disc introduced.
1979  Mattel Toy Company receives 1 millionth chip for electronic games
1980s  Integrated circuits applied to computers
1981  32-bit silicon chips developed.
1984  Compact disc (CD) player introduced.
1984  CD-ROM (compact-disc read-only memory) is available