

## Introduction to ARM Processor

- **ARM** stands for *Advanced RISC Machine*.
- It is a family of **reduced instruction set computing (RISC)** architectures for computer processors.
- Originally developed by **Acorn Computers** in the 1980s.
- Widely used in **mobile devices, embedded systems, and IoT** due to low power consumption and high performance.

### How it is Different from Other Processors

Feature	ARM Processor	Other (e.g., x86)
Architecture	RISC	CISC (e.g., Intel x86)
Power Consumption	Low	High
Instruction Set	Simple, fewer instructions	Complex, many instructions
Target Devices	Embedded, mobile	Desktops, servers
Cost	Cheaper	Costlier

### ARM Related Companies & Its Opportunities

#### Companies using ARM:

Qualcomm, Samsung, Apple, Broadcom, NVIDIA, MediaTek

#### Job Opportunities:

Embedded systems developer

IoT hardware/software engineer

Firmware developer

System-on-Chip (SoC) designer