Mobile Unleashed

The Origin and Evolution of ARM Processors In Our Devices

Foreword by Sir Robin Saxby

A SemiWiki Project



Daniel Nenni Don Dingee

SANTUL BISHT

Mobile Unleashed Don Dingee, 2015-12-08 This is the origin story of technology super heroes the creators and founders of ARM the company that is responsible for the processors found inside 95% of the world's mobile devices today This is also the evolution story of how three companies Apple Samsung and Qualcomm put ARM technology in the hands of billions of people through smartphones tablets music players and more It was anything but a straight line from idea to success for ARM The story starts with the triumph of BBC Micro engineers Steve Furber and Sophie Wilson who make the audacious decision to design their own microprocessor and it works the first time The question becomes how to sell it Part I follows ARM as its founders launch their own company select a new leader a new strategy and find themselves partnered with Apple TI Nokia and other companies just as digital technology starts to unleash mobile devices ARM grows rapidly even as other semiconductor firms struggle in the dot com meltdown and establishes itself as a standard for embedded RISC processors Apple aficionados will find the opening of Part II of interest the moment Steve Jobs returns and changes the direction toward fulfilling consumer dreams Samsung devotees will see how that firm evolved from its earliest days in consumer electronics and semiconductors through a philosophical shift to innovation Qualcomm followers will learn much of their history as it plays out from satellite communications to development of a mobile phone standard and emergence as a leading fabless semiconductor company If ARM could be summarized in one word it would be collaboration Throughout this story from Foreword to Epilogue efforts to develop an ecosystem are highlighted Familiar names such as Google Intel Mediatek Microsoft Motorola TSMC and others are interwoven throughout The evolution of ARM s first 25 years as a company wraps up with a shift to its next strategy the Internet of Things the ultimate connector for people and devices Research for this story is extensive simplifying a complex mobile industry timeline and uncovering critical points where ARM and other companies made fateful and sometimes surprising decisions Rare photos summary diagrams and tables and unique perspectives from insiders add insight to this important telling of technology history **Chip War** Chris Miller, 2025-09-16 An epic account of the decades long battle to control what has emerged as the world's most critical resource microchip technology with the United States and China increasingly in conflict You may be surprised to learn that microchips are the new oil the scarce resource on which the modern world depends Today military economic and geopolitical power are built on a foundation of computer chips Virtually everything from missiles to microwaves smartphones to the stock market runs on chips Until recently America designed and built the fastest chips and maintained its lead as the 1 superpower Now America s edge is slipping undermined by competitors in Taiwan Korea Europe and above all China Today as Chip War reveals China which spends more money each year importing chips than it spends importing oil is pouring billions into a chip building initiative to catch up to the US At stake is America's military superiority and economic prosperity Economic historian Chris Miller explains how the semiconductor came to play a critical role in modern life and how the U S become dominant in chip

design and manufacturing and applied this technology to military systems America's victory in the Cold War and its global
military dominance stems from its ability to harness computing power more effectively than any other power But here too
China is catching up with its chip building ambitions and military modernization going hand in hand America has let key
components of the chip building process slip out of its grasp contributing not only to a worldwide chip shortage but also a
new Cold War with a superpower adversary that is desperate to bridge the gap Illuminating timely and fascinating Chip War
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