The Designer's Guide to the Cortex-M Processor Family: A Tutorial Approach

By Trevor Martin

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The Designer's Guide to the Cortex-M Family is a tutorial-based book giving the key concepts required to develop programs in C with a Cortex M- based processor. The book begins with an overview of the Cortex- M family, giving architectural descriptions supported with practical examples, enabling the engineer to easily develop basic C programs to run on the Cortex- M0/M0+/M3 and M4. It then examines the more advanced features of the Cortex architecture such as memory protection, operating modes and dual stack operation. Once a firm grounding in the Cortex M processor has been established the book introduces the use of a small footprint RTOS and the CMSIS DSP library.

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About the Author

Trevor Martin graduated from Brunel University in 1988 with an Honors degree in Electrical and Electronic Engineering. In the same year he began work as a Junior Hardware engineer at Philips Medical Systems. He joined Hitex in 1992 as a Technical specialist for 8 Bit Microcontroller development tools. This included the 8051,68HC1158 microcontrollers. He also gained experience with networking protocols such as CAN,USB and TCP/IP. Since 2000 he has been supporting ARM based microcontrollers, initially ARM7 and ARM9 CPU then moving to Cortex-M processor. To promote these devices he has worked closely with both NXP and ST and also TI and Freescale to a lesser extent. Since 2005 he has written a number of „Insiders Guide? Books which are introductory tutorials to ARM based microcontroller families such as LPC2000, STR9 and STM32. He also runs regular training courses, a general Cortex Microcontroller workshop and also device specific courses. Users Review**From reader reviews:**

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