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Embedded systems: introduction to ARM® Cortex(TM)-M ...
Embedded Systems with ARM Cortex-M Microcontrollers in Assembly Language and C (Third Edition) ISBN-13: 978-0-9826926-6-0, Publisher: E-Man Press LLC; 3rd edition (July 2017) Available from Amazon, Walmart

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representation, assembly language programming, design of memory systems, input and output device interfacing and programming, multiprocessing. Textbook: Embedded Systems with ARM Cortex-M3 Microcontrollers in Assembly Language and C, Dr. Yifeng Zhu, E-Man Press, LLC, 2014, ISBN 978-0-9826926-2-2. (available at . amazon.com and other sources)

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Overview. The book introduces basic programming of ARM Cortex-M cores in assembly and C at the register level, and the fundamentals of embedded system design. It presents basic concepts such as data representations (integer, fixed-point, floating-point), assembly instructions, stack, and implementing basic controls and functions of C language at the assembly level.

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Foundations of the Embedded Systems online course was offered by Akshay Gill and MakerMax.Inc. here students will understand all the fundamentals of ARM cortex, core register functionalities such as link registers, stack pointers, vector tables, control registers etc. you will learn about the execution levels of privileged and unprivileged softwares.

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