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## ARM Microcontroller Interfacing

By Smith, Warwick A.

Book Condition: New. Publisher/Verlag: Elektor-Verlag | Hardware and Software. Learn to interface hardware devices to arm microcontrollers and write software to control it | Learn to interface and program hardware devices in a wide range of useful applications, using ARM7 microcontrollers and the C programming language. Examples covered in full detail include a simple LED to a multi-megabyte SD card running the FAT file system. Features of this book: - Build prototype circuits on breadboard or Veroboard and interface to ARM microcontrollers. - A 32-bit ARM7 microcontroller is used in interfacing and software examples. - Interfacing principles apply to other ARM microcontrollers and other non-ARM microcontrollers as well. - Example programs are written in the C programming language. - Use only free or open source software. - Download and install all programming tools from the Internet. - Template project files are provided for easy project creation. Hardware: Interface to LEDs, transistors, optocouplers, relays, solenoids, switches, keypads, LCD displays, seven segment displays, DC motors, stepper motors, external analogue signals using the ADC, RS-232, RS-485, TWI, USB, SPI and SD memory cards. Software: Once hardware has been interfaced to a microcontroller, software must be written to control the hardware. You will learn...



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