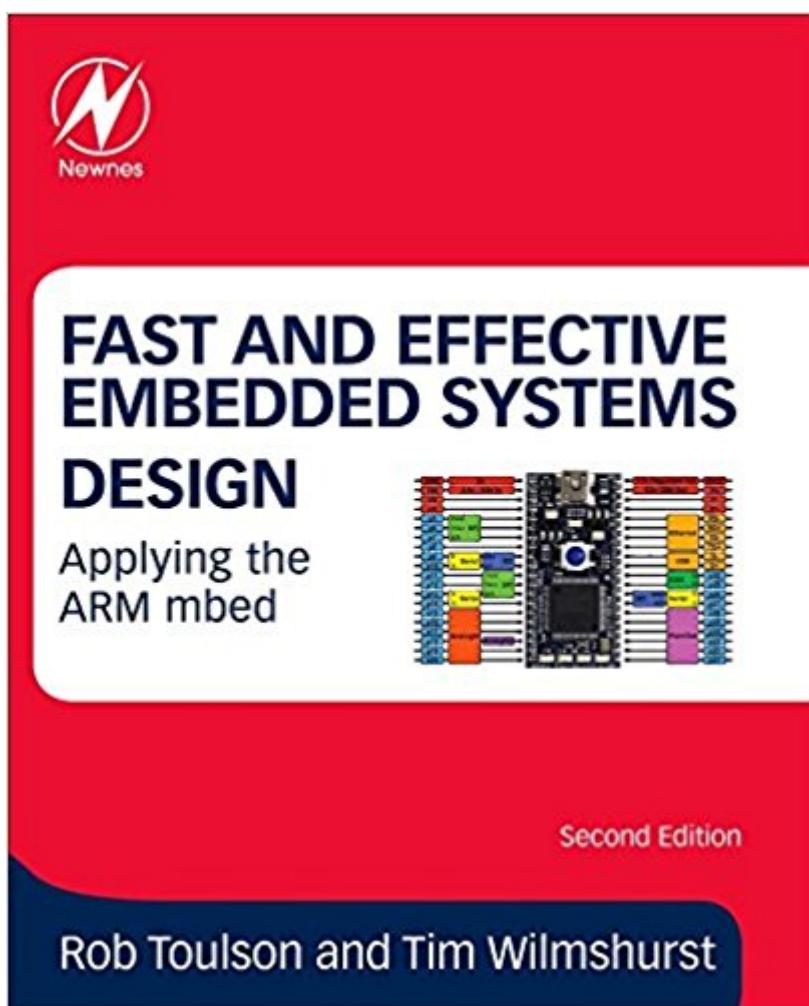The book was found

Fast And Effective Embedded Systems Design, Second Edition: Applying The ARM Mbed

Synopsis

Fast and Effective Embedded Systems Design is a fast-moving introduction to embedded systems design, applying the innovative ARM mbed and its web-based development environment. Each chapter introduces a major topic in embedded systems, and proceeds as a series of practical experiments, adopting a "learning through doing" strategy. Minimal background knowledge is needed to start. C/C++ programming is applied, with a step-by-step approach which allows you to get coding quickly. Once the basics are covered, the book progresses to some "hot" embedded issues - intelligent instrumentation, wireless and networked systems, digital audio and digital signal processing. In this new edition all examples and peripheral devices are updated to use the most recent libraries and peripheral devices, with increased technical depth, and introduction of the "mbed enabled" concept. Written by two experts in the field, this book reflects on the experimental results, develops and matches theory to practice, evaluates the strengths and weaknesses of the technology and techniques introduced, and considers applications in a wider context. New Chapters on: Bluetooth and ZigBee communicationInternet communication and control, setting the scene for the Ã¢â¬ËœInternet of ThingsÃ¢â¬â„¢Digital Audio, with high-fidelity applications and use of the I2S busPower supply, and very low power applicationsThe development process of moving from prototyping to small-scale or mass manufacture, with a commercial case study.Updates all examples and peripheral devices to use the most recent libraries and peripheral productsIncludes examples with touch screen displays and includes high definition audio input/output with the I2S interfaceCovers the development process of moving from prototyping to small-scale or mass manufacture with commercial case studiesCovers hot embedded issues such as intelligent instrumentation, networked systems, closed loop control, and digital signal processing

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Rob Toulson is Professor of Creative Industries at the University of Westminster. He holds a PhD in the field of digital signal processing (awarded by Anglia Ruskin University in 2004) and a first degree in Mechanical Engineering from Loughborough University (1999). Rob has a number of yearÃ¢â¬â„¢s industrial experience in digital signal analysis, control systems design, rapid prototyping, and model based design, as well as commercial experience in sound engineering and music production. His main focus is now in developing collaborative research between the technical and creative industries.Tim Wilmshurst is the author of Designing Embedded Systems with PIC Microcontrollers. He has been designing embedded systems since the early days of microcontrollers. For many years this was for Cambridge University, where he led a development

team building original systems for research applications - for example in measurement of bullet speed, wind tunnel control, simulated earthquakes, or seeking a cure to snoring. Now he is Head of Electronic Systems at the University of Derby, where he aims to share his love of engineering design with his students.

Light and easy reading for a professional software developer of 30+ years. I'd highly recommend getting the NXP LPC1768 and the associated mbed application board to follow along with the content. Pick up some SG90 micro-servos and some 28BYJ-48 steppers while you're at it - they're cheap and help make your experiments come alive.

Excellent book on getting started with the mbed. Lots of great examples along with the code to run it. I do have a lot of experience with programming and embedded systems. While the book does try to make learning about embedded systems easy, having some knowledge of programming and digital systems is helpful.

Better than I expected but I don't mean to be critical of the authors. A little too much on how to program in c++ but the authors know their audience better than me. A huge amount of information on the development platform they focus on.

Fast and Effective Embedded Systems Design, Second Edition: Applying the ARM mbed Fast and Effective Embedded Systems Design: Applying the ARM mbed Daniel Fast: 50 Plant Based, Whole Foods Daniel Fast Recipes+Daniel Fast Food List And Breakthrough Secrets (Daniel Fast, Daniel Plan, Daniel Plan Cookbook, Whole Foods, Daniel Fast Cookbook) Real-Time Systems: Design Principles for Distributed Embedded Applications (Real-Time Systems Series) The Zynq Book: Embedded Processing with the Arm Cortex-A9 on the Xilinx Zynq-7000 All Programmable Soc ISO 13753:1998, Mechanical vibration and shock - Hand-arm vibration - Method for measuring the vibration transmissibility of resilient materials when loaded by the hand-arm system Introduction to Embedded Systems: Using ANSI C and the Arduino Development Environment (Synthesis Lectures on Digital Circuits and Systems) Digital Design (Verilog): An Embedded Systems Approach Using Verilog AVR Microcontroller and Embedded Systems: Using Assembly and C (Pearson Custom Electronics Technology) Introduction to Embedded Systems: Using Microcontrollers and the MSP430 Fundamentals of Microcontrollers and Applications in Embedded Systems with PIC Microcontrollers English the American Way: A Fun ESL Guide to Language and Culture in the U.S.

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