Getting Started with the MSP430 Launchpad

Adrian Fernandez Dung Dang



Getting Started With The Msp430 Launchpad 1st Edition

Tobias Bleicker

Getting Started With The Msp430 Launchpad 1st Edition:

Getting Started with the MSP430 Launchpad Adrian Fernandez, Dung Dang, 2013-04-19 This book explores the world of microcontroller development through friendly lessons and progressively challenging projects which will have you blink LEDs make music with buzzers interact with different sensors like accelerometers and temperature sensors This book is focused on the MSP EXP430G2 LaunchPad Evaluation Kit which is a complete microcontroller development platform that includes everything you need to start creating microcontroller based projects Many of the 25 projects will also leverage external components such as the highly integrated Educational BoosterPack which is a modular extension to the LaunchPad and includes many components such as an RGB LED character LCD potentiometer This book provides helpful guides that break down hardware circuits through visual diagrams and includes fully commented code examples Concepts are broken down and explained in an easy to follow language and analogies to help you understand the principles behind each project system The projects will encourage you to use and even combine the fundamental concepts to develop your ideas in creating new microcontroller solutions Coverage includes Digital Input Output buttons LEDs turning anything into a button Analog Input Output sensors temperature accelerometer potentiometer etc Programming fundamentals conditional branches loops flow logic number systems Pulse Width Modulation PWM square wave buzzer analog signal simulation Serial Communication UART SPI I2C Code development using Energia a free open source code editor and compiler Debugging through serial communication with a computer Interfacing with external components such as LEDs buzzers potentiometers sensors more With the help of this book you will be challenged to think about developing your own unique microcontroller based application and you will be equipped to start solving various problems adding intelligence to existing products or even developing your own innovative creations with a LaunchPad development kit Includes over 25 projects which focuses on a learn by doing approach Contains easy to follow diagrams and code examples Covers Programming fundamentals such as conditional branches and loops flow logic number systems MSP430 LaunchPad Programming Agus Kurniawan, MSP430 LaunchPad Value Line Development kit is a cheap development board which we can program a microcontroller MSP430 easily This book provides tutorials how to get started with MSP430 LaunchPad programming using Energia It explains how MSP430 LaunchPad works with LEDs sensor device and serial communication TOC 1 Preparing Development Environment 1 1 MSP430 LaunchPad 1 2 Electronic Components 1 2 1 Fritzing 1 2 2 Arduino Sidekick Basic kit 1 2 3 Educational BoosterPack 1 4 Development Tool 1 5 Testing 2 Hello World 2 1 MSP430 LaunchPad Hardware Driver 2 1 1 Windows 8 and 8 1 2 1 2 Linux 2 2 Simple Testing 2 3 Energia Basic Programming Language 3 LED Controller 3 1 Basic LED Programming 3 2 Digital Output 4 Push Your Button 4 1 Getting Data from Button 4 2 Connecting An External Button to MSP430 LaunchPad 5 Serial Communication 5 1 Serial Monitor 5 2 Button and Serial Port 5 2 Reading Data from Serial Port 6 Reading Sensor Devices 6 1 Sensor Devices 6 2 Reading Sensor 7 Analog PWM Pulse Width Modulation 7 1 Analog PWM 7

2 Controlling Color on RGB LED 7 3 Writing Program 7 4 Executing Program MSP430 Microcontroller Lab Manual James Kretzschmar, Jeffrey Anderson, Steven F. Barrett, 2023-05-23 This book is a practical reference for using Texas Instruments MSP430 microcontrollers It provides a series of hands on laboratory exercises The labs may be completed in a traditional laboratory setting or at home using the Digilent Analog Discovery 2 Test Instrument This book can be used as a reference for planning future projects using the MSP430 microcontroller The authors focus on applications of the main peripheral modules available on the MSP430 microcontroller CPU clock Basic Input Output Timer Analog to Digital Converter They also provide examples of how to develop Pulse Width Modulation signals and how to use Interrupts

Digital System Design with FPGA: Implementation Using Verilog and VHDL Cem Unsalan, Bora Tar, 2017-07-14 Master FPGA digital system design and implementation with Verilog and VHDL This practical guide explores the development and deployment of FPGA based digital systems using the two most popular hardware description languages Verilog and VHDL Written by a pair of digital circuit design experts the book offers a solid grounding in FPGA principles practices and applications and provides an overview of more complex topics Important concepts are demonstrated through real world examples ready to run code and inexpensive start to finish projects for both the Basys and Arty boards Digital System Design with FPGA Implementation Using Verilog and VHDL covers Field programmable gate array fundamentals Basys and Arty FPGA boards The Vivado design suite Verilog and VHDL Data types and operators Combinational circuits and circuit blocks Data storage elements and sequential circuits Soft core microcontroller and digital interfacing Advanced FPGA Embedded Systems Design using the MSP430FR2355 LaunchPadTM Brock J. applications The future of FPGA LaMeres, 2023-01-06 This textbook for courses in Embedded Systems introduces students to necessary concepts through a hands on approach LEARN BY EXAMPLE This book is designed to teach the material the way it is learned through example Every concept is supported by numerous programming examples that provide the reader with a step by step explanation for how and why the computer is doing what it is doing LEARN BY DOING This book targets the Texas Instruments MSP430 microcontroller This platform is a widely popular low cost embedded system that is used to illustrate each concept in the book The book is designed for a reader that is at their computer with an MSP430FR2355 LaunchPadTM Development Kit plugged in so that each example can be coded and run as they learn LEARN BOTH ASSEMBLY AND C The book teaches the basic operation of an embedded computer using assembly language so that the computer operation can be explored at a low level Once more complicated systems are introduced i e timers analog to digital converters and serial interfaces the book moves into the C programming language Moving to C allows the learner to abstract the operation of the lower level hardware and focus on understanding how to make things work BASED ON SOUND PEDAGOGY This book is designed with learning outcomes and assessment at its core Each section addresses a specific learning outcome that the student should be able to do after its completion The concept checks and exercise problems provide a rich set of assessment tools to measure student

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