

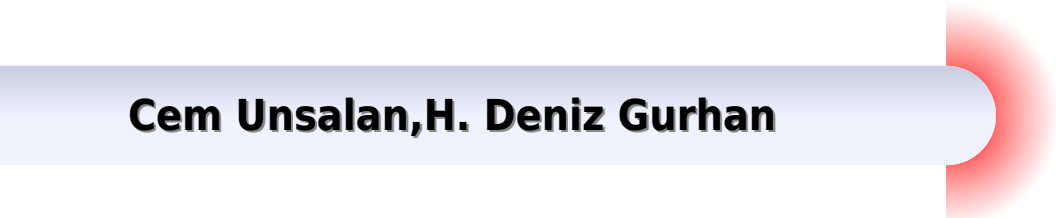
# Getting Started with the MSP430 Launchpad

Adrian Fernandez  
Dung Dang



# Getting Started With The Msp430 Launchpad 1st Edition

**Cem Unsalan,H. Deniz Gurhan**



## 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 applications The future of FPGA      *Embedded Systems Design using the MSP430FR2355 LaunchPad™* Brock J. 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 LaunchPad™ 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

performance on each outcome      TI ARM Cortex-M LaunchPad Programming by Example Agus Kurniawan, Stellaris LM4F120 and Tiva C Series LaunchPad is great products based ARM Cortex M for learning This book helps you to get started with Stellaris LM4F120 and Tiva C Series LaunchPad and how to build programs using Energia and Code Composer Studio The following is highlight topics Preparing Development Environment Developing program using Energia Developing program using Code Composer Studio 6 x Accessing board through GPIO Analog I O UART I2C and SPI Providing several code samples to demonstrate how to work      **Getting Started with Tiva ARM Cortex M4 Microcontrollers** Dhananjay V. Gadre, Sarthak Gupta, 2017-10-16 The book presents laboratory experiments concerning ARM microcontrollers and discusses the architecture of the Tiva Cortex M4 ARM microcontrollers from Texas Instruments describing various ways of programming them Given the meager peripherals and sensors available on the kit the authors describe the design of Padma a circuit board with a large set of peripherals and sensors that connects to the Tiva Launchpad and exploits the Tiva microcontroller family s on chip features ARM microcontrollers which are classified as 32 bit devices are currently the most popular of all microcontrollers They cover a wide range of applications that extend from traditional 8 bit devices to 32 bit devices Of the various ARM subfamilies Cortex M4 is a middle level microcontroller that lends itself well to data acquisition and control as well as digital signal manipulation applications Given the prominence of ARM microcontrollers it is important that they should be incorporated in academic curriculums However there is a lack of up to date teaching material textbooks and comprehensive laboratory manuals In this book each of the microcontroller s resources digital input and output timers and counters serial communication channels analog to digital conversion interrupt structure and power management features are addressed in a set of more than 70 experiments to help teach a full semester course on these microcontrollers Beyond these physical interfacing exercises it describes an inexpensive BoB break out board that allows students to learn how to design and build standalone projects as well a number of illustrative projects      *MSP430-based Robot Applications* Dan Harres, 2013-02-22 This book provides a careful explanation of the basic areas of electronics and computer architecture along with lots of examples to demonstrate the interface sensor design programming and microcontroller peripheral setup necessary for embedded systems development With no need for mechanical knowledge of robots the book starts by demonstrating how to modify a simple radio controlled car to create a basic robot The fundamental electronics of the MSP430 are described along with programming details in both C and assembly language and full explanations of ports timing and data acquisition Further chapters cover inexpensive ways to perform circuit simulation and prototyping Key features include Thorough treatment of the MSP430 s architecture and functionality along with detailed application specific guidance Programming and the use of sensor technology to build an embedded system A learn by doing experience With this book you will learn The basic theory for electronics design Analog circuits Digital logic Computer arithmetic Microcontroller programming How to design and build a working robot Assembly language and C programming How to develop your own

high performance embedded systems application using an on going robotics application Teaches how to develop your own high performance embedded systems application using an on going robotics application Thorough treatment of the MSP430 s architecture and functionality along with detailed application specific guidance Focuses on electronics programming and the use of sensor technology to build an embedded system Covers assembly language and C programming Multicore DSP Naim Dahnoun,2018-02-12 The only book to offer special coverage of the fundamentals of multicore DSP for implementation on the TMS320C66xx SoC This unique book provides readers with an understanding of the TMS320C66xx SoC as well as its constraints It offers critical analysis of each element which not only broadens their knowledge of the subject but aids them in gaining a better understanding of how these elements work so well together Written by Texas Instruments First DSP Educator Award winner Naim Dahnoun the book teaches readers how to use the development tools take advantage of the maximum performance and functionality of this processor and have an understanding of the rich content which spans from architecture development tools and programming models such as OpenCL and OpenMP to debugging tools It also covers various multicore audio and image applications in detail Additionally this one of a kind book is supplemented with A rich set of tested laboratory exercises and solutions Audio and Image processing applications source code for the Code Composer Studio integrated development environment from Texas Instruments Multiple tables and illustrations With no other book on the market offering any coverage at all on the subject and its rich content with twenty chapters Multicore DSP From Algorithms to Real time Implementation on the TMS320C66x SoC is a rare and much needed source of information for undergraduates and postgraduates in the field that allows them to make real time applications work in a relatively short period of time It is also incredibly beneficial to hardware and software engineers involved in programming real time embedded systems **Programmable Microcontrollers with Applications** Cem Unsalan,H. Deniz Gurhan,2013-09-17 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product MASTER THE MSP430 MICROCONTROLLER AND DEVELOPMENT PLATFORM Expand your electronics design skills to include the MSP430 family of ultra low power microprocessors with help from this practical guide Programmable Microcontrollers with Applications MSP430 LaunchPad with CCS and Grace thoroughly explains each concept and provides illustrated examples and projects Find out how to configure the MSP430 efficiently program custom functions process analog and digital signals and interface with external components Sample code and reference information are available on the companion website COVERAGE INCLUDES Digital circuit and microcontroller fundamentals MSP430 architecture and CCS development environment LaunchPad platform and Grace configuration tool C and Assembly language programming and debugging Interrupts digital I O and D A and A D converters Data storage and coding practices for flash memory Oscillators clocks low power modes and timers Digital and analog communication ports and protocols Schematics and assembly instructions for 12 projects

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