Getting Started with the MSP430 Launchpad

Adrian Fernandez, Dung Dang

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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

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Janice Oconnell:

The particular book Getting Started with the MSP430 Launchpad has a lot of knowledge on it. So when you make sure to read this book you can get a lot of gain. The book was published by the very famous author. Tom makes some research before write this book. This specific book very easy to read you can find the point easily after reading this article book.

Clara Demoss:

Exactly why? Because this Getting Started with the MSP430 Launchpad is an unordinary book that the inside of the reserve waiting for you to snap that but latter it will distress you with the secret that inside. Reading this book next to it was fantastic author who all write the book in such awesome way makes the content inside easier to understand, entertaining approach but still convey the meaning totally. So , it is good for you for not hesitating having this any longer or you going to regret it. This unique book will give you a lot of positive aspects than the other book have such as help improving your talent and your critical thinking means. So , still want to hold up having that book? If I were you I will go to the reserve store hurriedly.

Edda Allen:

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James Anderson:

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