



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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Playing with family inside a park, coming to see the ocean world or hanging out with friends is thing that usually you will have done when you have spare time, and then why you don't try issue that really opposite from that. 1 activity that make you not feeling tired but still relaxing, trilling like on roller coaster you are ride on and with addition of knowledge. Even you love Getting Started with the MSP430 Launchpad, you may enjoy both. It is excellent combination right, you still desire to miss it? What kind of hang-out type is it? Oh come on its mind hangout guys. What? Still don't have it, oh come on its called reading friends.

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