



# Programmable Microcontrollers with Applications: MSP430 LaunchPad with CCS and Grace

*Cem Unsalan, H. Deniz Gurhan*

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## 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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