Programmable Microcontrollers with Applications: MSP430 LaunchPad with CCS and Grace (Electronics)

By 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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Editorial Review

About the Author

Cem Unsalan, Ph.D., has worked in signal and image processing for 15 years. After getting a Ph.D. from The Ohio State University in 2003, he started working at Yeditepe University, Turkey, where he established the DSP Lab and has been teaching microprocessors and digital signal processing courses for seven years. Dr. Unsalan has published 16 journal publications and has published four international books. He holds one patent.

H. Deniz Gurhan received his B.Sc. from Yeditepe University. He is pursuing a Ph.D. degree in digital signal processing and embedded systems at the same university and works in the DSP Laboratory.

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