



# Arduino Microcontroller Processing for Everyone!

## (Synthesis Lectures on Digital Circuits and Systems)

*Steven F. Barrett*

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This book is about the Arduino microcontroller and the Arduino concept. The visionary Arduino team of Massimo Banzi, David Cuartielles, Tom Igoe, Gianluca Martino, and David Mellis launched a new innovation in microcontroller hardware in 2005, the concept of open source hardware. Their approach was to openly share details of microcontroller-based hardware design platforms to stimulate the sharing of ideas and promote innovation. This concept has been popular in the software world for many years. This book is intended for a wide variety of audiences including students of the fine arts, middle and senior high school students, engineering design students, and practicing scientists and engineers. To meet this wide audience, the book has been divided into sections to satisfy the need of each reader. The book contains many software and hardware examples to assist the reader in developing a wide variety of systems. For the examples, the Arduino Duemilanove and the Atmel ATmega328 is employed as the target processor. Table of Contents: Getting Started / Programming / Embedded Systems Design / Serial Communication Subsystem / Analog to Digital Conversion (ADC) / Interrupt Subsystem / Timing Subsystem / Atmel AVR Operating Parameters and Interfacing



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