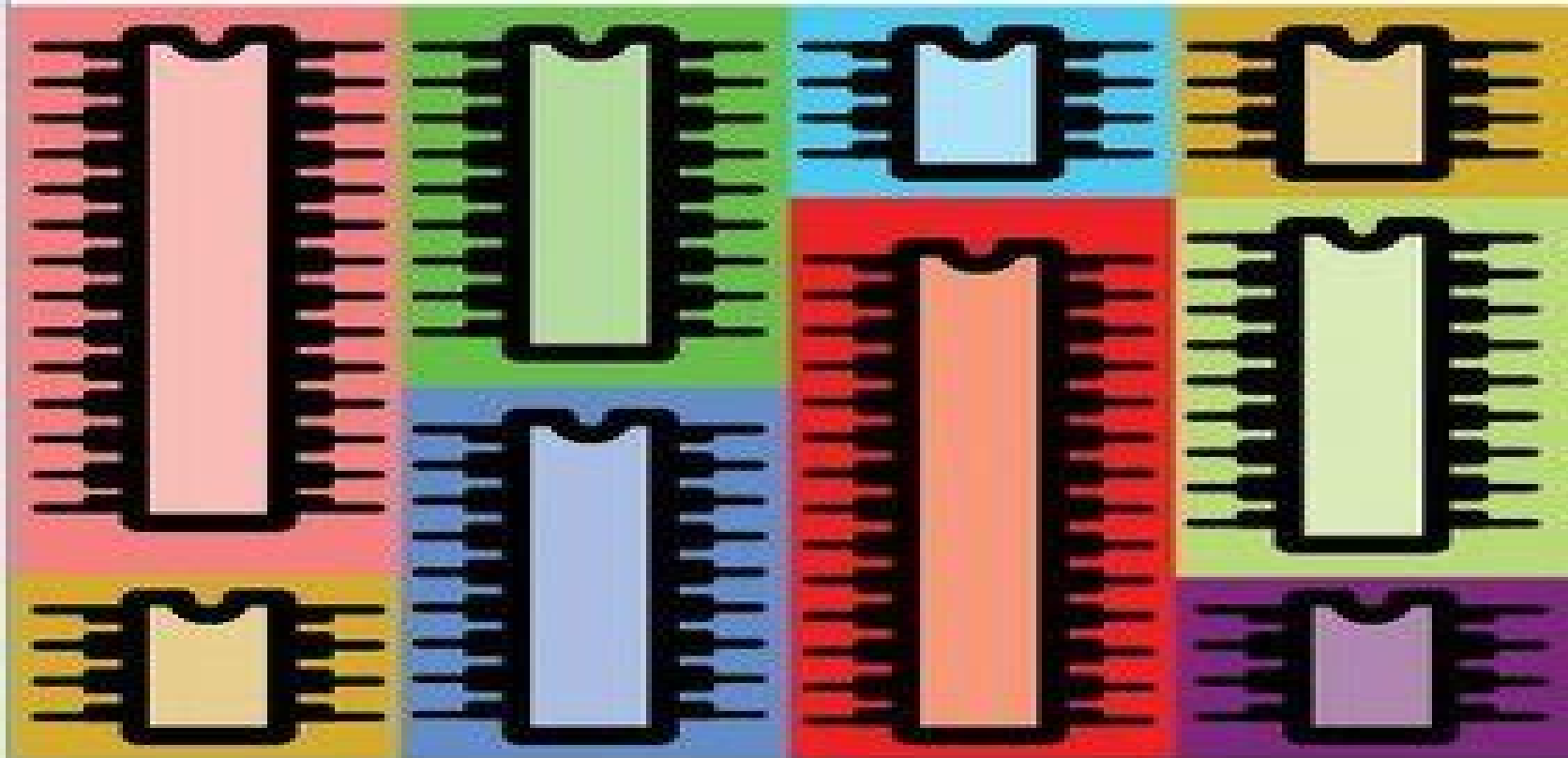


Make: AVR Programming



Learning to Write Software for Hardware
Elliot Williams

Make Avr Programming Learning To Write Software For Hardware Elliot Williams

Elliot Williams



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AVR Programming Elliot Williams,2014-01-27 Atmel s AVR microcontrollers are the chips that power Arduino and are the go to chip for many hobbyist and hardware hacking projects In this book you ll set aside the layers of abstraction provided by the Arduino environment and learn how to program AVR microcontrollers directly In doing so you ll get closer to the chip and you ll be able to squeeze more power and features out of it Each chapter of this book is centered around projects that incorporate that particular microcontroller topic Each project includes schematics code and illustrations of a working project Program a range of AVR chips Extend and re use other people s code and circuits Interface with USB I2C and SPI peripheral devices Learn to access the full range of power and speed of the microcontroller Build projects including Cylon Eyes a Square Wave Organ an AM Radio a Passive Light Sensor Alarm Temperature Logger and more Understand what s happening behind the scenes even when using the Arduino IDE

Make Elliot Williams,2014 Atmel s AVR microcontrollers are at the heart of the Arduino and are bountiful in the hobbyist and hardware hacker worlds In this book you ll peel away the layers of abstraction provided by the Arduino environment and learn how to program AVR microcontrollers directly Each chapter of this book is centered around projects that incorporate that particular microcontroller topic Each project includes schematics code and illustrations of a working project This book includes Program a range of AVR chips Extend and re use other people s code and circuits Interface with USB I2C and SPI peripheral devices Learn to access the full range of power and speed of the microcontroller Build projects including Cylon Eyes a Square Wave Organ an AM Radio a Passive Light Sensor Alarm Temperature Logger and more Learn what s really going on under the hood From publisher

Low-Level Systems Programming with Machine and Assembly Language Nathan Westwood,2025-05-02 Low Level Systems Programming with Machine and Assembly Language offers an expert level guide to understanding and mastering the art of building high performance software with direct hardware interaction This book is designed for seasoned developers embedded systems engineers and computer scientists who are eager to push the boundaries of low level programming It provides an in depth exploration of assembly and machine language programming focusing on how to optimize system level software for maximum performance by interacting directly with hardware Inside you ll discover Foundations of Low Level Programming Understand the key concepts of low level programming including memory management CPU architecture and the interaction between software and hardware components Assembly Language and Machine Code Learn how to write efficient and optimized assembly code converting high level instructions into machine readable code that can run directly on the hardware Optimizing Software for Hardware Explore techniques for optimizing software performance such as instruction pipelining loop unrolling and minimizing cache misses to take full advantage of the underlying hardware Direct Hardware Interaction Master the techniques for interacting directly with hardware devices such as memory mapped I O interrupt handling and direct memory access DMA to enhance system responsiveness and efficiency

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