
Programming And Customizing The Avr Microcontroller By Dhananjay Gadre

Embedded Systems Design with the Atmel AVR Microcontroller
The Avr Microcontroller and Embedded Systems Using Assembly and C
PICAXE Microcontroller Projects for the Evil Genius
The Definitive Guide to the ARM Cortex-M3
Atmel AVR Microcontroller Primer
PIC Microcontrollers
Expert C Programming
Programming the Parallel Port
Microchip AVR® Microcontroller Primer
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Hands-On Embedded Programming with C++17
Programming 32-bit Microcontrollers in C
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Arduino: A Technical Reference
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Programming And Customizing The Avr Micr
Programming and Interfacing Atmel AVR Microcontrollers
Digital System Design
Embedded C Programming and the Atmel AVR (Book Only)
Test Driven Development for Embedded C

Real-Time C++
Sams Teach Yourself Arduino Programming in 24 Hours

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Dhananjay Gadre*

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Embedded Systems Design with the Atmel AVR Microcontroller Morgan & Claypool Publishers

Do you want a low cost way to learn C programming for microcontrollers? This book shows you how to use Atmel's \$19.99 AVR Butterfly board and the FREE WinAVR C compiler to make a very inexpensive system for using C to develop microcontroller projects.

Students will find the thorough coverage of C explained in the context of microcontrollers to be an invaluable learning aide. Professionals, even those who already know C, will find many useful tested software and hardware examples that will speed their development work. Test drive the book by going to www.smileymicros.com and downloading the FREE 30 page pdf file: Quick Start Guide for using the WinAVR Compiler with ATMEL's AVR Butterfly which contains the first two chapters of the book and has all you need to get started with the AVR Butterfly and WinAVR. In addition to an in-depth coverage of C, the book has projects for:

- 7Port I/O reading switches and blinking LEDs
- 7UART communication with a PC
- 7Using interrupts, timers, and counters
- 7Pulse Width Modulation for LED brightness and motor speed control
- 7Creating a Real Time Clock
- 7Making music
- 7ADC: Analog to Digital Conversion
- 7DAC: Digital to Analog Conversion
- 7Voltage, light, and temperature measurement
- 7Making a slow Function Generator and Digital

Oscilloscope 7LCD programming
7Writing a Finite State Machine The author (an Electrical Engineer, Official Atmel AVR Consultant, and award winning writer) makes the sometimes-tedious job of learning C easier by often breaking the in-depth technical exposition with humor and anecdotes detailing his personal experience and misadventures.

The Avr Microcontroller and Embedded Systems Using Assembly and C CRC Press

CREATE FIENDISHLY FUN tinyAVR MICROCONTROLLER PROJECTS This wickedly inventive guide shows you how to conceptualize, build, and program 34 tinyAVR microcontroller devices that you can use for either entertainment or practical purposes. After covering the development process, tools, and power supply sources, tinyAVR Microcontroller Projects for the Evil Genius gets you working on exciting LED, graphics LCD, sensor, audio, and alternate energy projects. Using easy-to-find components and equipment, this hands-on guide helps you build a solid foundation in electronics and embedded programming while accomplishing useful--and slightly twisted--projects. Most of the projects have fascinating visual appeal in the form of large LED-based displays, and others feature a voice playback mechanism. Full source code and circuit files for each project are available for download. tinyAVR Microcontroller Projects for the Evil Genius: Features step-by-step instructions and helpful illustrations Allows you to customize each project for your own requirements Offers full source code for all projects for download Build these and other devious

devices: Flickering LED candle Random color and music generator Mood lamp VU meter with 20 LEDs Celsius and Fahrenheit thermometer RGB dice Tengou on graphics display Spinning LED top with message display Contactless tachometer Electronic birthday blowout candles Fridge alarm Musical toy Batteryless infrared remote Batteryless persistence-of-vision toy Each fun, inexpensive Evil Genius project includes a detailed list of materials, sources for parts, schematics, and lots of clear, well-illustrated instructions for easy assembly. The larger workbook-style layout and convenient two-column format make following the step-by-step instructions a breeze. Make Great Stuff! TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

PICAXE Microcontroller Projects for the Evil Genius McGraw Hill

Professional

This reader-friendly guide shows you how to take charge of the newest, most versatile microcontrollers around, Atmel's AVR RISC chip family. Inside, Electronics World writer and astronomy instrumentation developer Dhananjay V. Gadre walks you from first meeting these exciting new computers-on-a-chip all the way through design and ready-to-launch products.

[The Definitive Guide to the ARM Cortex-M3](#) "O'Reilly Media, Inc."

The AVR RISC Microcontroller Handbook is a comprehensive guide to designing with Atmel's new controller family, which is designed to offer high speed and low power consumption at a lower cost. The main text is divided into three sections: hardware, which covers all internal peripherals; software, which covers programming and the instruction set;

and tools, which explains using Atmel's Assembler and Simulator (available on the Web) as well as IAR's C compiler. Practical guide for advanced hobbyists or design professionals Development tools and code available on the Web [Atmel AVR Microcontroller Primer](#) McGraw-Hill Education TAB Build safety-critical and memory-safe stand-alone and networked embedded systems Key Features Know how C++ works and compares to other languages used for embedded development Create advanced GUIs for embedded devices to design an attractive and functional UI Integrate proven strategies into your design for optimum hardware performance Book Description C++ is a great choice for embedded development, most notably, because it does not add any bloat, extends maintainability, and offers many advantages over different programming languages. Hands-On Embedded Programming with C++17 will show you how C++ can be used to build robust and concurrent systems that leverage the available hardware resources. Starting with a primer on embedded programming and the latest features of C++17, the book takes you through various facets of good programming. You'll learn how to use the concurrency, memory management, and functional programming features of C++ to build embedded systems. You will understand how to integrate your systems with external peripherals and efficient ways of working with drivers. This book will also guide you in testing and optimizing code for better performance and implementing useful design patterns. As an additional benefit, you will see how to work with Qt, the popular GUI library used for building embedded systems. By the end of the book, you will have

gained the confidence to use C++ for embedded programming. What you will learn

- Choose the correct type of embedded platform to use for a project
- Develop drivers for OS-based embedded systems
- Use concurrency and memory management with various microcontroller units (MCUs)
- Debug and test cross-platform code with Linux
- Implement an infotainment system using a Linux-based single board computer
- Extend an existing embedded system with a Qt-based GUI
- Communicate with the FPGA side of a hybrid FPGA/SoC system

Who this book is for

If you want to start developing effective embedded programs in C++, then this book is for you. Good knowledge of C++ language constructs is required to understand the topics covered in the book. No knowledge of embedded systems is assumed.

PIC Microcontrollers CRC Press

An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical

processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.

Expert C Programming Ax Elektronika D.O.O.

This textbook provides practicing scientists and engineers a primer on the Microchip AVR® microcontroller. The revised title of this book reflects the 2016 Microchip Technology acquisition of Atmel Corporation. In this third edition we highlight the popular ATmega164 microcontroller and other pin-for-pin controllers in the family with a complement of flash memory up to 128 KB. The third edition also provides an update on Atmel Studio, programming with a USB pod, the gcc compiler, the ImageCraft JumpStart C for AVR compiler, the Two-Wire Interface (TWI), and multiple examples at both the subsystem and system level. Our approach is to provide readers with the fundamental skills to quickly set up and operate with this internationally popular microcontroller. We cover the main subsystems aboard the ATmega164, providing a short theory section followed

by a description of the related microcontroller subsystem with accompanying hardware and software to operate the subsystem. In all examples, we use the C programming language. We include a detailed chapter describing how to interface the microcontroller to a wide variety of input and output devices and conclude with several system level examples including a special effects light-emitting diode cube, autonomous robots, a multi-function weather station, and a motor speed control system.

Programming the Parallel Port

Course Technology

This book (volume 1) constitutes a complete basic educational guide which offers important knowledge and demystifies the AVR programming. Moreover, this book has been written by taking in account the real needs of students, teachers and others who want to develop AVR based applications. All the programs and applications of the book have been developed and tested in a real microcontroller, in contrast with other books where the corresponding material has been developed only theoretically with no tests in practice. The above lines, state the deep belief of the author that this book will constitute a useful teaching and educational tool for helping anyone understand the AVR applications. On the other hand, the book can be used by the teacher for organizing lectures and presentations as well as the laboratory exercises. Free download: Editable power point presentation (editable slides and Visio drawings), source code, solution manual -selected exercises-.

Microchip AVR® Microcontroller Primer

Packt Publishing Ltd

This textbook provides practicing scientists and engineers an advanced treatment of the Atmel AVR

microcontroller. This book is intended as a follow on to a previously published book, titled "Atmel AVR Microcontroller Primer: Programming and Interfacing." Some of the content from this earlier text is retained for completeness. This book will emphasize advanced programming and interfacing skills. We focus on system level design consisting of several interacting microcontroller subsystems. The first chapter discusses the system design process. Our approach is to provide the skills to quickly get up to speed to operate the internationally popular Atmel AVR microcontroller line by developing systems level design skills. We use the Atmel ATmega164 as a representative sample of the AVR line. The knowledge you gain on this microcontroller can be easily translated to every other microcontroller in the AVR line. In succeeding chapters, we cover the main subsystems aboard the microcontroller, providing a short theory section followed by a description of the related microcontroller subsystem with accompanying software for the subsystem. We then provide advanced examples exercising some of the features discussed. In all examples, we use the C programming language. The code provided can be readily adapted to the wide variety of compilers available for the Atmel AVR microcontroller line. We also include a chapter describing how to interface the microcontroller to a wide variety of input and output devices. The book concludes with several detailed system level design examples employing the Atmel AVR microcontroller.

Atmel Arm Programming for Embedded Systems

River Publishers

The 2-volume set LNCS 11613 and 11614 constitutes the refereed proceedings of the 6th International

Conference on Augmented Reality, Virtual Reality, and Computer Graphics, AVR 2019, held in Santa Maria al Bagno, Italy, in June 2019. The 32 full papers and 35 short papers presented were carefully reviewed and selected from numerous submissions. The papers discuss key issues, approaches, ideas, open problems, innovative applications and trends in virtual and augmented reality, 3D visualization and computer graphics in the areas of medicine, cultural heritage, arts, education, entertainment, military and industrial applications. They are organized in the following topical sections: virtual reality; medicine; augmented reality; cultural heritage; education; and industry.

Hands-On Embedded Programming with C++17 Springer

Format: A4, 212 pages. This easy to understand manual is both a useful learning tool and a good reference manual to keep handy on your workbench. Starting out with the basics of microcontroller programming, it proceeds to cover intermediate and advanced topics of Atmel's AVR Microcontroller family. The programming aspect of the book focuses on the widely popular Bascom-AVR compiler, which is a very user-friendly Basic compiler/IDE developed in the Netherlands. Throughout the book, practical projects are included, at various levels of complexity, to match the subjects in the various chapters. Inputs & Outputs In microcontroller applications push buttons are used in most cases. How to use them without unwanted contact bounce (what is debouncing anyway?), how we can intelligently increase the number of I/O pins of a microcontroller, driving DC motors and becoming familiar with PWM, are topics of this chapter. Get your hands on an AVR microcontroller

with help from Bascom-AVR and start controlling the world around you! Data Displays Data displays are very important in the world of microcontrollers. With modern graphic LCD displays, one can design smart-looking products. But in some cases the classic 2x16 alphanumeric LCD or even 7 segment LED display is better-suited. If you have a limited number of I/O pins on your microcontroller, you might even want to connect your LCD via an SPI interface. All this is covered in this chapter. Pick the right display and make sure that your product will stand out! Data Measurements Human beings live in an analogue world and feel comfortable there. But this is not so for microcontrollers, which live in a digital world. After successfully measuring data, we have to transform it into digital values. We can do this in many ways, by using smart sensors (and smart programming) to get temperature, air pressure or even a GPS location - all with AVRs. Get familiar with data measurements using Bascom-AVR! Development tools Having programmed microcontrollers for many years, we have become regular users of development boards. There are many available on the market. Some expensive ones attempt to achieve universality by handling many different MCU models and including many different peripherals on-board. Others are nothing more than a break-out board for a specific MCU device. In contrast, we have designed optimal development boards, that will meet most of your requirements while writing/testing your AVR programs. These boards emerged from extensive usage in our daily work, so there are very good reasons why our tools are designed as illustrated in this chapter. Use smart tools when writing

your Bascom-AVR programs! Practical Projects There should be many practical projects in every book for programmers and this book is no exception. Bascom-AVR, in conjunction with AVR microcontrollers, is a winning combination when designing a simple (but very powerful) I2C analyzer. Other projects, like a Frequency generator, Frequency counter, a simple but accurate clock and a Metal detector are just a few of the projects that can be found in this chapter. AVR microcontrollers are user-friendly, so get to know them better!

Programming 32-bit Microcontrollers in C CRC Press

The AVR microcontroller from Atmel (now Microchip) is one of the most widely used 8-bit microcontrollers. Arduino Uno is based on AVR microcontroller. It is inexpensive and widely available around the world. This book combines the two. In this book, the authors use a step-by-step and systematic approach to show the programming of the AVR chip. Examples in both Assembly language and C show how to program many of the AVR features, such as timers, serial communication, ADC, SPI, I2C, and PWM. The text is organized into two parts: 1) The first 6 chapters use Assembly language programming to examine the internal architecture of the AVR. 2) Chapters 7-18 uses both Assembly and C to show the AVR peripherals and I/O interfacing to real-world devices such as LCD, motor, and sensor. The first edition of this book published by Pearson used ATmega32. It is still available for purchase from Amazon. This new edition is based on Atmega328 and the Arduino Uno board. The appendices, source codes, tutorials and support materials for both books are available on the following

websites: <http://www.NicerLand.com/>
and http://www.MicroDigitalEd.com/AVR/AVR_books.htm

[//www.MicroDigitalEd.com/AVR/AVR_books.htm](http://www.MicroDigitalEd.com/AVR/AVR_books.htm)

tinyAVR Microcontroller Projects for the Evil Genius Newnes

This book provides practicing scientists and engineers a tutorial on the fundamental concepts and use of microcontrollers. Today, microcontrollers, or single integrated circuit (chip) computers, play critical roles in almost all instrumentation and control systems. Most existing books are rewritten for undergraduate and graduate students taking an electrical and/or computer engineering course. Furthermore, these texts have been written with a particular model of microcontroller as the target discussion. These textbooks also require a requisite knowledge of digital design fundamentals. This textbook presents the fundamental concepts common to all microcontrollers. Our goals are to present the over-arching theory of microcontroller operation and to provide a detailed discussion on constituent subsystems available in most microcontrollers. With such goals, we envision that the theory discussed in this book can be readily applied to a wide variety of microcontroller technologies, allowing practicing scientists and engineers to become acquainted with basic concepts prior to beginning a design involving a specific microcontroller. We have found that the fundamental principles of a given microcontroller are easily transferred to other controllers. Although this is a relatively small book, it is packed with useful information for quickly coming up to speed on microcontroller concepts. Arduino: A Technical Reference Springer
This book includes 15 programming and

constructional projects, and covers the range of AVR chips currently available, including the recent Tiny AVR. No prior experience with microcontrollers is assumed. John Morton is author of the popular PIC: Your Personal Introductory Course, also published by Newnes. *The hands-on way of learning to use the Atmel AVR microcontroller* Project work designed to put the AVR through its paces* The only book designed to get you up-and-running with the AVR from square one

BASCOM-Avr Programming Pearson Education

In just 24 sessions of one hour or less, Sams Teach Yourself Arduino Programming in 24 Hours teaches you C programming on Arduino, so you can start creating inspired "DIY" hardware projects of your own! Using this book's straightforward, step-by-step approach, you'll walk through everything from setting up your programming environment to mastering C syntax and features, interfacing your Arduino to performing full-fledged prototyping. Every hands-on lesson and example builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common Arduino programming tasks. Quizzes at the end of each chapter help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Learn how to... Get the right Arduino hardware and accessories for your needs Download the Arduino IDE, install it, and link it to your Arduino Quickly create,

compile, upload, and run your first Arduino program Master C syntax, decision control, strings, data structures, and functions Use pointers to work with memory--and avoid common mistakes Store data on your Arduino's EEPROM or an external SD card Use existing hardware libraries, or create your own Send output and read input from analog devices or digital interfaces Create and handle interrupts in software and hardware Communicate with devices via the SPI interface and I2C protocol Work with analog and digital sensors Write Arduino C programs that control motors Connect an LCD to your Arduino, and code the output Install an Ethernet shield, configure an Ethernet connection, and write networking programs Create prototyping environments, use prototyping shields, and interface electronics to your Arduino *AVR Programming* Universal-Publishers *Just months after the introduction of the new generation of 32-bit PIC microcontrollers, a Microchip insider and acclaimed author takes you by hand at the exploration of the PIC32* Includes handy checklists to help readers perform the most common programming and debugging tasks The new 32-bit microcontrollers bring the promise of more speed and more performance while offering an unprecedented level of compatibility with existing 8 and 16-bit PIC microcontrollers. In sixteen engaging chapters, using a parallel track to his previous title dedicated to 16-bit programming, the author puts all these claims to test while offering a gradual introduction to the development and debugging of embedded control applications in C. Author Lucio Di Jasio, a PIC and embedded control expert, offers unique insight into the new 32-bit architecture while developing a number

of projects of growing complexity. Experienced PIC users and newcomers to the field alike will benefit from the text's many thorough examples which demonstrate how to nimbly side-step common obstacles, solve real-world design problems efficiently and optimize code using the new PIC32 features and peripheral set. You will learn about:

- *basic timing and I/O operation
- *debugging methods with the MPLAB SIM *simulator and ICD tools
- *multitasking using the PIC32 interrupts
- *all the new hardware peripherals
- *how to control LCD displays
- *experimenting with the Explorer16 board and *the PIC32 Starter Kit
- *accessing mass-storage media
- *generating audio and video signals
- *and more!

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- 32-bit microcontrollers are becoming the technology of choice for high performance embedded control applications including portable media players, cell phones, and GPS receivers. - Learn to use the C programming language for advanced embedded control designs and/or learn to migrate your applications from previous 8 and 16-bit architectures.

An Educational Guide to the Avr Microcontroller Programming Tata McGraw-Hill Education

A family of internationally popular microcontrollers, the Atmel AVR microcontroller series is a low-cost

hardware development platform suitable for an educational environment. Until now, no text focused on the assembly language programming of these microcontrollers. Through detailed coverage of assembly language programming principles and techniques, *Some Assembly Required: Assembly Language Programming with the AVR Microcontroller* teaches the basic system capabilities of 8-bit AVR microcontrollers. The text illustrates fundamental computer architecture and programming structures using AVR assembly language. It employs the core AVR 8-bit RISC microcontroller architecture and a limited collection of external devices, such as push buttons, LEDs, and serial communications, to describe control structures, memory use and allocation, stacks, and I/O. Each chapter contains numerous examples and exercises, including programming problems. By studying assembly languages, computer scientists gain an understanding of the functionality of basic processors and how their capabilities support high level languages and applications. Exploring this connection between hardware and software, this book provides a foundation for understanding compilers, linkers, loaders, and operating systems in addition to the processors themselves. *Programming 8-bit PIC Microcontrollers in C* "O'Reilly Media, Inc."

This textbook provides practicing scientists and engineers a primer on the Atmel AVR microcontroller. In this second edition we highlight the popular ATmega164 microcontroller and other pin-for-pin controllers in the family with a complement of flash memory up to 128 kbytes. The second edition also adds a chapter on embedded system design fundamentals and provides extended examples on two different autonomous

robots. Our approach is to provide the fundamental skills to quickly get up and operating with this internationally popular microcontroller. We cover the main subsystems aboard the ATmega164, providing a short theory section followed by a description of the related microcontroller subsystem with accompanying hardware and software to exercise the subsystem. In all examples, we use the C programming language. We include a detailed chapter describing how to interface the microcontroller to a wide variety of input and output devices and conclude with several system level examples. Table of Contents: Atmel AVR Architecture Overview / Serial Communication Subsystem / Analog-to-Digital Conversion / Interrupt Subsystem / Timing Subsystem / Atmel AVR Operating Parameters and Interfacing / Embedded Systems Design *Microcontrollers Fundamentals for Engineers and Scientists* Morgan & Claypool Publishers

WHIP UP SOME FIENDISHLY FUN PICAXE MICROCONTROLLER DEVICES "Ron has worked hard to explain how the PICAXE system operates through simple examples, and I'm sure his easy-to-read style will help many people progress with their PICAXE projects." --From the Foreword by Clive Seager, Revolution Education Ltd. This wickedly inventive guide shows you how to program, build, and debug a variety of PICAXE microcontroller projects. PICAXE Microcontroller Projects for the Evil Genius gets you started with programming and I/O interfacing right away, and then shows you how to develop a master processor circuit. From "Hello, World!" to "Hail, Octavius!" All the projects in Part I can be accomplished using either an M or M2 class PICAXE processor, and Part II adds

20X2-based master processor projects to the mix. Part III culminates in the creation of Octavius--a sophisticated robotics experimentation platform featuring a 40X2 master processor and eight breadboard stations which allow you to develop intelligent peripherals to augment Octavius' functioning. The only limit is your imagination! PICAXE Microcontroller Projects for the Evil Genius: Features step-by-step instructions and helpful photos and illustrations Allows you to customize each project for your purposes Offers all the programs in the book free for download Removes the frustration factor--all required parts are listed, along with sources Build these and other devious devices: Simple mini-stereo jack adapter USBS-PA3 PICAXE programming adapter Power supply Three-state digital logic probe 20X2 master processor circuit TV-R input module 8-bit parallel 16X2 LCD board Serialized 16X2 LCD Serialized 4X4 matrix keypad SPI 4-digit LED display Countdown timer Programmable, multi-function peripheral device and operating system Octavius--advanced robotics experimentation platform L298 dual DC motor controller board Each fun, inexpensive Evil Genius project includes a detailed list of materials, sources for parts, schematics, and lots of clear, well-illustrated instructions for easy assembly. The larger workbook-style layout and convenient two-column format make following the step-by-step instructions a breeze. Make Great Stuff! TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

[Python Programming for Arduino](#) Maker Media, Inc.

Atmel's AVR microcontrollers are the go-

to chip for many hobbyists and hardware hacking projects. In this book, PROGRAMMING AND INTERFACING ATMEL'S AVRS, you will learn how to program and interface using three of Atmel's microcontrollers--the ATtiny13, the ATmega328, and the ATmega32. The book begins with the binary number system and move into programming in assembly, then C and C++. Very little

prior engineering knowledge is assumed. You'll work step-by-step through sections on connecting to devices such as DC motors, servos, steppers, touch pads, GPS sensors, temperature sensors, accelerometers, and more. Get started working with Atmel's AVRs today, with PROGRAMMING AND INTERFACING ATMEL'S AVRS.

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