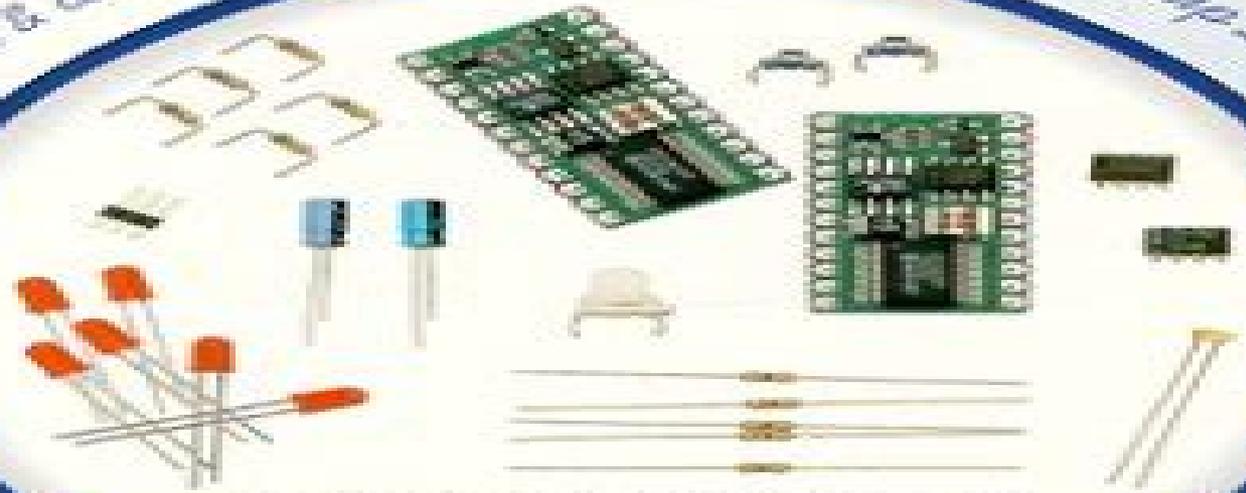


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by Matt Gilliland
Foreword by Ken Green, Parallax, Inc.

The Microcontroller Application Cookbook

Matt Gilliland



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Basic knowledge of programming using a high level language is essential but those familiar with other high level languages such as Python or Java should not have too much difficulty picking up the basics of embedded C programming

What You Will Learn

- Use ARM's uVision MDK to configure the microcontroller run time environment RTE
- create projects and compile download and run simple programs on an evaluation board
- Use and extend device family packs to configure I/O peripherals
- Develop multimedia applications using the touchscreen and audio codec beep generator
- Configure the codec to stream digital audio and design digital filters to create amazing audio effects
- Write multi threaded programs using ARM's real time operating system RTOS
- Write critical sections of code in assembly language and integrate these with functions written in C
- Fix problems using ARM's debugging tool to set breakpoints and examine variables
- Port uVision projects to other open source development environments

In Detail

Embedded microcontrollers are at the core of many everyday electronic devices. Electronic automotive systems rely on these devices for engine management anti lock brakes in car entertainment automatic transmission active suspension satellite navigation etc. The so called internet of things drives the market for such technology so much so that embedded cores now represent 90% of all processor's sold. The ARM Cortex M4 is one of the most powerful microcontrollers on the market and includes a floating point unit FPU which enables it to address applications.

The ARM Cortex M4 Microcontroller Cookbook provides a practical introduction to programming an embedded microcontroller architecture. This book attempts to address this through a series of recipes that develop embedded applications targeting the ARM Cortex M4 device family. The recipes in this book have all been tested using the Keil MCBSTM32F400 board. This board includes a small graphic LCD touchscreen 320x240 pixels that can be used to create a variety of 2D gaming applications. These motivate a younger audience and are used throughout the book to illustrate particular hardware peripherals and software concepts. C language is used predominantly throughout but one chapter is devoted to recipes involving assembly language. Programs are mostly written using ARM's free microcontroller development kit MDK but for those looking for open source development environments the book also shows how to configure the ARM GNU toolchain. Some of the recipes described in the book are the basis for laboratories and assignments undertaken by undergraduates.

Style and approach

The ARM Cortex M4 Cookbook is a practical guide full of hands on recipes. It follows a step by step approach that allows you to find utilize and learn ARM concepts quickly.

[Arm\(r\) Cortex\(r\) M4 Cookbook](#) Mark Fisher, 2016-03-07

Over 50 hands on recipes that will help you develop amazing real time applications using GPIO RS232 ADC DAC timers audio codecs graphics LCD and a touch screen.

About This Book

This book focuses on programming embedded systems using a practical approach. Examples show how to use bitmapped graphics and manipulate digital audio to produce amazing games and other multimedia applications. The recipes in this book are written using ARM's MDK Microcontroller Development Kit which is the most comprehensive and accessible development solution.

Who This Book Is For

This book is aimed at those with an interest in designing and programming embedded systems. These could include electrical engineers or computer programmers who

want to get started with microcontroller applications using the ARM Cortex M4 architecture in a short time frame The book s recipes can also be used to support students learning embedded programming for the first time Basic knowledge of programming using a high level language is essential but those familiar with other high level languages such as Python or Java should not have too much difficulty picking up the basics of embedded C programming What You Will Learn Use ARM s uVision MDK to configure the microcontroller run time environment RTE create projects and compile download and run simple programs on an evaluation board Use and extend device family packs to configure I O peripherals Develop multimedia applications using the touchscreen and audio codec beep generator Configure the codec to stream digital audio and design digital filters to create amazing audio effects Write multi threaded programs using ARM s real time operating system RTOS Write critical sections of code in assembly language and integrate these with functions written in C Fix problems using ARM s debugging tool to set breakpoints and examine variables Port uVision projects to other open source development environments In DetailEmbedded microcontrollers are at the core of many everyday electronic devices Electronic automotive systems rely on these devices for engine management anti lock brakes in car entertainment automatic transmission active suspension satellite navigation etc The so called internet of things drives the market for such technology so much so that embedded cores now represent 90% of all processor s sold The ARM Cortex M4 is one of the most powerful microcontrollers on the market and includes a floating point unit FPU which enables it to address applications The ARM Cortex M4 Microcontroller Cookbook provides a practical introduction to programming an embedded microcontroller architecture This book attempts to address this through a series of recipes that develop embedded applications targeting the ARM Cortex M4 device family The recipes in this book have all been tested using the Keil MCBSTM32F400 board This board includes a small graphic LCD touchscreen 320x240 pixels that can be used to create a variety of 2D gaming applications These motivate a younger audience and are used throughout the book to illustrate particular hardware peripherals and software concepts C language is used predominantly throughout but one chapter is devoted to recipes involving assembly language Programs are mostly written using ARM s free microcontroller development kit MDK but for those looking for open source development environments the book also shows how to configure the ARM GNU toolchain Some of the recipes described in the book are the basis for laboratories and assignments undertaken by undergraduates Style and approachThe ARM Cortex M4 Cookbook is a practical guide full of hands on recipes It follows a step by step approach that allows you to find utilize and learn ARM concepts quickly

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and run simple programs on an evaluation board Use and extend device family packs to configure I O peripherals Develop multimedia applications using the touchscreen and audio codec beep generator Configure the codec to stream digital audio and design digital filters to create amazing audio effects Write multi threaded programs using ARM s real time operating system RTOS Write critical sections of code in assembly language and integrate these with functions written in C Fix problems using ARM s debugging tool to set breakpoints and examine variables Port uVision projects to other open source development environments In Detail Embedded microcontrollers are at the core of many everyday electronic devices Electronic automotive systems rely on these devices for engine management anti lock brakes in car entertainment automatic transmission active suspension satellite navigation etc The so called internet of things drives the market for such technology so much so that embedded cores now represent 90% of all processor s sold The ARM Cortex M4 is one of the most powerful microcontrollers on the market and includes a floating point unit FPU which enables it to address applications The ARM Cortex M4 Microcontroller Cookbook provides a practical introduction to programming an embedded microcontroller architecture This book attempts to address this through a series of recipes that develop embedded applications targeting the ARM Cortex M4 device family The recipes in this book have all been tested using the Keil MCBSTM32F400 board This board includes a small graphic LCD touchscreen 320x240 pixels that can be used to create a variety of 2D gaming applications These motivate a younger audience and are used throughout the book to illustrate particular hardware peripherals and software concepts C language is used predominantly throughout but one chapter is devoted to recipes involving assembly language Programs are mostly written using ARM s free microcontroller development kit MDK but for those looking for open source development environments the book also shows how to configure the ARM GNU toolchain Some of the recipes described in the book are the basis for laboratories and assignments undertaken by undergraduates Style and approach The ARM Cortex M4 Cookbook is a practical guide full of hands on recipes It follows a step by step approach that allows you to find utilize and learn ARM concepts quickly

From Patent to Profit Bob DeMateis,2026-03-03 Having a novel idea and turning that idea into cash is not as simple as it sounds To help innovative individuals learn to navigate around the many pitfalls of inventing Bob DeMatteis has written From Patent to Profit an up to date guide to all of the important steps involved in taking a product from the drawing board to market Whether you are a professional inventor a part time dabbler or just a clever daydreamer From Patent to Profit can help make your dreams a reality

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Nuts & Volts

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Programming and Interfacing the 8051 Microcontroller Sencer Yeralan, Ashutosh Ahluwalia, 1993 Background Assembly language programming Assembly language techniques Introductory experiments Hardware experiments Enhanced members of the 8051 family Building an 8051 based microcontrollers system Developing microcontroller applications General purpose system calls 8051 family products and vendors

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