Making Embedded Systems: Design Patterns for Great Software

By Elecia White

Making Embedded Systems: Design Patterns for Great Software By Elecia White

Interested in developing embedded systems? Since they don't tolerate inefficiency, these systems require a disciplined approach to programming. This easy-to-read guide helps you cultivate a host of good development practices, based on classic software design patterns and new patterns unique to embedded programming. Learn how to build system architecture for processors, not operating systems, and discover specific techniques for dealing with hardware difficulties and manufacturing requirements.

Written by an expert who's created embedded systems ranging from urban surveillance and DNA scanners to children's toys, this book is ideal for intermediate and experienced programmers, no matter what platform you use.

- Optimize your system to reduce cost and increase performance
- Develop an architecture that makes your software robust in resource-constrained environments
- Explore sensors, motors, and other I/O devices
- Do more with less: reduce RAM consumption, code space, processor cycles, and power consumption
- Learn how to update embedded code directly in the processor
- Discover how to implement complex mathematics on small processors
- Understand what interviewers look for when you apply for an embedded systems job

⬇ **Download** Making Embedded Systems: Design Patterns for Great ...pdf

📄 **Read Online** Making Embedded Systems: Design Patterns for Gre ...pdf

Making Embedded Systems: Design Patterns for Great Software

By Elecia White

Making Embedded Systems: Design Patterns for Great Software By Elecia White

Interested in developing embedded systems? Since they don't tolerate inefficiency, these systems require a disciplined approach to programming. This easy-to-read guide helps you cultivate a host of good development practices, based on classic software design patterns and new patterns unique to embedded programming. Learn how to build system architecture for processors, not operating systems, and discover specific techniques for dealing with hardware difficulties and manufacturing requirements.

Written by an expert who's created embedded systems ranging from urban surveillance and DNA scanners to children's toys, this book is ideal for intermediate and experienced programmers, no matter what platform you use.

- Optimize your system to reduce cost and increase performance
- Develop an architecture that makes your software robust in resource-constrained environments
- Explore sensors, motors, and other I/O devices
- Do more with less: reduce RAM consumption, code space, processor cycles, and power consumption
- Learn how to update embedded code directly in the processor
- Discover how to implement complex mathematics on small processors
- Understand what interviewers look for when you apply for an embedded systems job

Making Embedded Systems: Design Patterns for Great Software By Elecia White Bibliography

- Sales Rank: #225514 in Books
- Brand: O Reilly Media
- Published on: 2011-11-12
- Released on: 2011-11-09
- Original language: English
- Number of items: 1
- Dimensions: 9.19" h x .76" w x 7.00" l, 1.18 pounds
- Binding: Paperback
- 330 pages

 Download Making Embedded Systems: Design Patterns for Great ...pdf

 Read Online Making Embedded Systems: Design Patterns for Gre ...pdf

Download and Read Free Online Making Embedded Systems: Design Patterns for Great Software By Elecia White

Editorial Review

Review
"*Making Embedded Systems* is the book for a C programmer who wants to enter the fun (and lucrative) world of embedded systems. It's very well written--entertaining, even--and filled with clear illustrations."
--Jack Ganssle, author and embedded system expert.

"Elecia has a lot to share and she's doing it in style with her book Making Embedded Systems. The book is loaded with great information and wisdom. Those just learning embedded systems will find many mysteries revealed with lots of definitions and how-to advice." --James W. Grenning, *Author Test-Driven Development for Embedded C*

About the Author

Elecia White has worked on DNA scanners, inertial measurement units for airplanes and race cars, toys for preschoolers, a gunshot location system for catching criminals, and assorted other medical and consumer devices. She is the founder of Logical Elegance, an embedded systems consulting company based in San Jose. Elecia has developed strong skills in signal processing, hardware integration, complex system design, and performance. Having been through FAA and FDA certification processes, she understands the importance of producing quality designsand how they lead to quality implementations.

Elecia has spent several years in management roles but enjoys hands-on engineering and the thrill of delivering excellent products. While continuing to provide leadership and mentoring, she prefers to focus on the technical aspects of a project. A graduate of Harvey Mudd College in Claremont, CA, Elecia enjoys sharing her passion for science, engineering and interesting gizmos, particularly how these things can make the world a better place.

Users Review

From reader reviews:

Bobby Miller:

Hey guys, do you wants to finds a new book to read? May be the book with the title Making Embedded Systems: Design Patterns for Great Software suitable to you? The actual book was written by popular writer in this era. The particular book untitled Making Embedded Systems: Design Patterns for Great Softwareis the main of several books which everyone read now. That book was inspired a number of people in the world. When you read this e-book you will enter the new dimension that you ever know previous to. The author explained their strategy in the simple way, and so all of people can easily to understand the core of this e-book. This book will give you a lot of information about this world now. So you can see the represented of the world with this book.

Carol Johnson:

Exactly why? Because this Making Embedded Systems: Design Patterns for Great Software is an unordinary book that the inside of the guide waiting for you to snap this but latter it will zap you with the secret this inside. Reading this book adjacent to it was fantastic author who write the book in such amazing way makes the content on the inside easier to understand, entertaining method but still convey the meaning fully. So , it is good for you for not hesitating having this any more or you going to regret it. This book will give you a lot of advantages than the other book get such as help improving your expertise and your critical thinking method. So , still want to postpone having that book? If I were you I will go to the reserve store hurriedly.

Keith Mayo:

Many people spending their period by playing outside with friends, fun activity along with family or just watching TV the whole day. You can have new activity to spend your whole day by looking at a book. Ugh, think reading a book can definitely hard because you have to use the book everywhere? It fine you can have the e-book, having everywhere you want in your Smartphone. Like Making Embedded Systems: Design Patterns for Great Software which is having the e-book version. So , try out this book? Let's observe.

Herbert Oakley:

A lot of reserve has printed but it differs. You can get it by internet on social media. You can choose the very best book for you, science, amusing, novel, or whatever by means of searching from it. It is identified as of book Making Embedded Systems: Design Patterns for Great Software. Contain your knowledge by it. Without causing the printed book, it could possibly add your knowledge and make you actually happier to read. It is most significant that, you must aware about guide. It can bring you from one location to other place.

Download and Read Online Making Embedded Systems: Design Patterns for Great Software By Elecia White #UABYCW8PXLK

Read Making Embedded Systems: Design Patterns for Great Software By Elecia White for online ebook

Making Embedded Systems: Design Patterns for Great Software By Elecia White Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Making Embedded Systems: Design Patterns for Great Software By Elecia White books to read online.

Online Making Embedded Systems: Design Patterns for Great Software By Elecia White ebook PDF download

Making Embedded Systems: Design Patterns for Great Software By Elecia White Doc

Making Embedded Systems: Design Patterns for Great Software By Elecia White Mobipocket

Making Embedded Systems: Design Patterns for Great Software By Elecia White EPub

UABYCW8PXLK: Making Embedded Systems: Design Patterns for Great Software By Elecia White