Google Drive



Designing Embedded Systems: Handbook + LAMP Project

Steve McClure

Download now

Click here if your download doesn"t start automatically

Designing Embedded Systems: Handbook + LAMP Project

Steve McClure

Designing Embedded Systems: Handbook + LAMP Project Steve McClure

This book reviews the Software Development and Engineering Principles involved in the Design of Embedded Computer Systems.

A LAMP (Linux Apache MySQL PHP) design for a Web-Based Home Control / Security Application is also provided (full source code included).

This book is applicable to both the seasoned Embedded Software Engineer and to the Hobbyist who just wants to learn a little bit about writing code. Information gathered by the author's 30+ years in the field is discussed as he presents what works and what does not work with regard to embedded software engineering. This will help engineers but will also be an aid in assisting those who are tasked with managing the design of an embedded application.

But what of the novice?

What of the person wanting to gain some understanding in the field of embedded software engineering?

Do they need a Computer Science or Electrical Engineering degree before they can even begin to learn how to program an embedded system?

All too many books discuss such programming from an advanced level.

Well, this book is not like that at all.

The idea is to get anyone that is interested in embedded programming to be up and running in a short period of time. The language of choice today is C or C++. For an easy entrance into this world of programming the C language was chosen for the code examples presented within this book. But what programming application should be tackled? An embedded application is a program that continually executes on a computer system and as it does so, it interacts with its environment.

A home control lighting system would be the ideal application and by the time you have finished you would know how:

• To install LAMP (Linux, Apache (Web Server), MySQL and PHP) on your PC computer
• To backup/restore your Linux hard drive
• To automatically execute your application at system startup
• To apply Java Script, MySQL and PHP to your own Web page
• To build C applications that communicate over serial ports
• To build C applications that use MySQL
• To write a complete Home Control / Security application
• To have your application send email messages with WebCam images
• To have your Home Control / Security application speak messages
• To compute and utilize sunrise and sunset times for each day of the year

Oh! And there's one added bonus. With this system you do not require any monthly monitoring fee. Since your Home Control / Security application simply sends you an email when it detects an intruder, you can immediately go home or call a friend or neighbor to check on the house. No need to fork out money each month for some 'service' charge.

They say that knowledge is power. That may be true, but to sit at home using your iPAD or iPHONE (or some other Tablet, or even a web page on one of your computers) and to bring up your Home Control web page and click on a button to turn on a light or to initiate a sequence of events for evening television viewing, well, that is really neat.

And this book presents all this information to you in an easy to read form.

The book is also written in such a way that it may be used by both small and large engineering companies. By the time you have completed its reading you will have learned that an embedded project is much more than simply writing software code. It is an entire documentation process of which code amounts to but a small percentage. The reason software generally takes a long time to develop (and costs even more to maintain) is simply because this design process is often overlooked or bypassed. For a fully documented design is required by all company departments in order for them to successfully complete their work.

So now is the time to get into some fun and start programming an embedded application!

Download Designing Embedded Systems: Handbook + LAMP Projec ...pdf

Read Online Designing Embedded Systems: Handbook + LAMP Proj ...pdf

Download and Read Free Online Designing Embedded Systems: Handbook + LAMP Project Steve McClure

---

From reader reviews:

Ruth Brinkman:

Why don't make it to become your habit? Right now, try to prepare your time to do the important act, like looking for your favorite book and reading a book. Beside you can solve your short lived problem; you can add your knowledge by the book entitled Designing Embedded Systems: Handbook + LAMP Project. Try to face the book Designing Embedded Systems: Handbook + LAMP Project as your friend. It means that it can to be your friend when you sense alone and beside associated with course make you smarter than ever. Yeah, it is very fortuned for yourself. The book makes you a lot more confidence because you can know every thing by the book. So , let's make new experience and knowledge with this book.

John Honeycutt:

You could spend your free time to learn this book this publication. This Designing Embedded Systems: Handbook + LAMP Project is simple bringing you can read it in the park, in the beach, train in addition to soon. If you did not have got much space to bring typically the printed book, you can buy the actual e-book. It is make you simpler to read it. You can save the actual book in your smart phone. And so there are a lot of benefits that you will get when you buy this book.

Erica Dennis:

Reserve is one of source of understanding. We can add our know-how from it. Not only for students but in addition native or citizen require book to know the change information of year for you to year. As we know those publications have many advantages. Beside all of us add our knowledge, could also bring us to around the world. With the book Designing Embedded Systems: Handbook + LAMP Project we can get more advantage. Don't that you be creative people? To become creative person must want to read a book. Only choose the best book that suited with your aim. Don't end up being doubt to change your life by this book Designing Embedded Systems: Handbook + LAMP Project. You can more desirable than now.

Victor Elias:

Reading a e-book make you to get more knowledge from this. You can take knowledge and information originating from a book. Book is prepared or printed or created from each source in which filled update of news. In this particular modern era like today, many ways to get information are available for you actually. From media social including newspaper, magazines, science publication, encyclopedia, reference book, book and comic. You can add your understanding by that book. Are you hip to spend your spare time to spread out your book? Or just looking for the Designing Embedded Systems: Handbook + LAMP Project when you necessary it?

Download and Read Online Designing Embedded Systems: Handbook + LAMP Project Steve McClure #7DK3ZBMPWRF

Read Designing Embedded Systems: Handbook + LAMP Project by Steve McClure for online ebook

Designing Embedded Systems: Handbook + LAMP Project by Steve McClure 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 Designing Embedded Systems: Handbook + LAMP Project by Steve McClure books to read online.

Online Designing Embedded Systems: Handbook + LAMP Project by Steve McClure ebook PDF download

Designing Embedded Systems: Handbook + LAMP Project by Steve McClure Doc

Designing Embedded Systems: Handbook + LAMP Project by Steve McClure Mobipocket

Designing Embedded Systems: Handbook + LAMP Project by Steve McClure EPub