EMBEDDED SYSTEMS

HANDBOOK

Edited by

RICHARD ZURAWSKI

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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

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