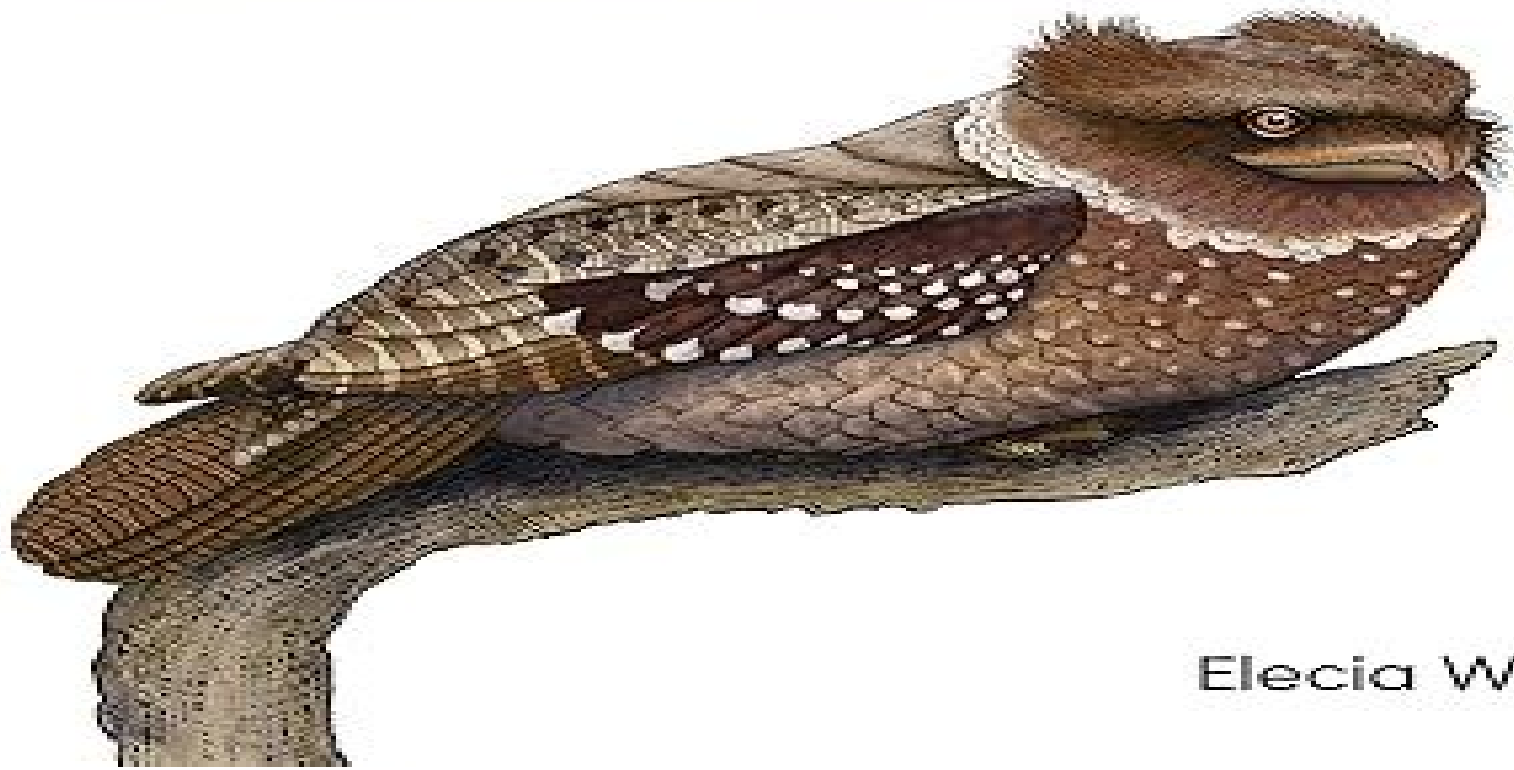


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Making Embedded Systems

Design Patterns for Great Software



Elecia White

Making Embedded Systems Design Patterns For Great Software

Christopher Kormanyos



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into three parts plus several appendices Part I provides a foundation for real time C by covering language technologies including object oriented methods template programming and optimization Next part II presents detailed descriptions of a variety of C components that are widely used in microcontroller programming It details some of C s most powerful language elements such as class types templates and the STL to develop components for microcontroller register access low level drivers custom memory management embedded containers multitasking etc Finally part III describes mathematical methods and generic utilities that can be employed to solve recurring problems in real time C The appendices include a brief C language tutorial information on the real time C development environment and instructions for building GNU GCC cross compilers and a microcontroller circuit For this fourth edition the most recent specification of C 20 is used throughout the text Several sections on new C 20 functionality have been added and various others reworked to reflect changes in the standard Also several new example projects ranging from introductory to advanced level are included and existing ones extended and various reader suggestions have been incorporated Efficiency is always in focus and numerous examples are backed up with runtime measurements and size analyses that quantify the true costs of the code down to the very last byte and microsecond The target audience of this book mainly consists of students and professionals interested in real time C Readers should be familiar with C or another programming language and will benefit most if they have had some previous experience with microcontroller electronics and the performance and size issues prevalent in embedded systems programming

Fluent C Christopher Preschern, 2022-10-17 Expert advice on C programming is hard to find While much help is available for object oriented programming languages there s surprisingly little for the C language With this hands on guide beginners and experienced C programmers alike will find guidance about design decisions including how to apply them bit by bit to running code examples when building large scale programs Christopher Preschern a leading member of the design patterns community answers questions such as how to structure C programs cope with error handling or design flexible interfaces Whether you re looking for one particular pattern or an overview of design options for a specific topic this book shows you how to implement hands on design knowledge specifically for the C programming language You ll find design patterns for Error handling Returning error information Memory management Returning data from C functions Data lifetime and ownership Flexible APIs Flexible iterator interfaces Organizing files in modular programs Escaping ifdef Hell

[Recent Advancements in ICT Infrastructure and Applications](#) Manish Chaturvedi, Pankesh Patel, Ramnarayan Yadav, 2022-06-11 This book covers complete spectrum of the ICT infrastructure elements required to design develop and deploy the ICT applications at large scale Considering the focus of governments worldwide to develop smart cities with zero environmental footprint the book is timely and enlightens the way forward to achieve the goal by addressing the technological aspects In particular the book provides an in depth discussion of the sensing infrastructure communication protocols computation frameworks storage architectures software frameworks and data analytics The book also presents the ICT application related

case studies in the domain of transportation health care energy and disaster management to name a few The book is used as a reference for design development and large scale deployment of ICT applications by practitioners professionals government officials and engineering students **Reliability and Resilience in the Internet of Things** Liudong Xing,2024-04-14

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