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advanced book

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systems, high-speed

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is a system that

performs a specific

task and has a

computer embedded

inside. A system is

comprised of

components and

interfaces connected

together for a common

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purpose.

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software topics  
(including interrupts),  
and a systems  
approach to typical  
embedded  
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on interfacing and the design of embedded systems. This third book is an advanced book focusing on operating systems, high-speed interfacing, control systems, robotics, Bluetooth, and the Internet of Things (IoT).

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This book presents  
components, interfaces  
and methodologies for  
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You will explore the  
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programming interface  
of the reference  
microcontroller, you'll  
look at the  
implementation of the  
features and the  
device drivers. Next,  
you'll learn about the  
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task and has a

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inside. Topics include

design, verification,

hardware/software

synchronization,

interfacing devices to

the computer, timing

diagrams, real-time

systems, data

collection and

processing, motor

control, analog and

digital filters, real-time

signal processing, low-

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power design, and the  
internet of things.

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series of three books  
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fundamentals of  
embedded systems as

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W. Valvano. His tenure  
at UT Austin began in

He is a leading

authority on embedded  
systems having written

23 referred archival

papers, 63 referred

papers, and five book

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It is intended for the embedded real-time software developer using the ThreadX Real-Time Operating System (RTOS) and the Azure

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RTOS GUIX UI run-time  
Library... and then  
complete the event  
handling and other  
application logic  
required to make your  
user interface perform  
real work.

**Azure Real-Time  
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(RTOS) GUIX Studio  
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An EEW system sends  
a real-time alert to  
people before the  
quake arrives.

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