

An Introduction to the Design of Small-Scale Embedded Systems

By Tim Wilmshurst

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This book offers a comprehensive and balanced introduction to the design of small embedded systems. Important topics covered include microcontroller architectures, memory technologies, data conversion, serial protocols, program design, low power design, and design for the real time environment. The final chapter ingeniously applies systematic engineering design principles to embedded system design. While the Microchip PIC 16F84 is used extensively to illustrate the early material, examples elsewhere are drawn from a range of microcontroller families, leading to a broad view of device capabilities.

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Editorial Review

About the Author
TIM WILMSHURST is Head of Electronic Systems at the University of Derby, where he teaches embedded system design. Before this he was Senior Design Engineer at the Engineering Department of Cambridge University. Here he led the work of the Electronics Development Group, and taught electronic system design. His designs have been applied in many areas of engineering research, as well as in the commercial world.

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