



# Hardware/Firmware Interface Design: Best Practices for Improving Embedded Systems Development

*By Gary Stringham*

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## Hardware/Firmware Interface Design: Best Practices for Improving Embedded Systems Development By Gary Stringham

Why care about hardware/firmware interaction? These interfaces are critical, a solid hardware design married with adaptive firmware can access all the capabilities of an application and overcome limitations caused by poor communication. For the first time, a book has come along that will help hardware engineers and firmware engineers work together to mitigate or eliminate problems that occur when hardware and firmware are not optimally compatible. Solving these issues will save time and money, getting products to market sooner to create more revenue.

The principles and best practices presented in this book will prove to be a valuable resource for both hardware and firmware engineers. Topics include register layout, interrupts, timing and performance, aborts, and errors. Real world cases studies will help to solidify the principles and best practices with an aim towards cleaner designs, shorter schedules, and better implementation!

- Reduce product development delays with the best practices in this book
- Concepts apply to ASICs, ASSPs, SoCs, and FPGAs
- Real-world examples and case studies highlight the good and bad of design processes

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#### Review

*"I did not have to read too far into this book to realize that the author has extensive experience with not only microcontroller programming but also the management of engineering projects involving hardware and firmware. The format of the book is characterized by numerous boxed text inserts and copious bullet items. However, the content is not fluff; the book is loaded with information, some significant fraction of which can be found only in industry among those with development experience. This author has it."--Dennis L Feucht, [www.en-genius.net](http://www.en-genius.net)*

*"The book is loaded with information, some significant fraction of which can be found only among those with development experience. This author has it.... This is a good book for anyone who is involved in hardware-firmware development and who knows just enough to want to better understand how to organize and design it all."--EN-Genius Network*

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