



Test Driven Development for Embedded C (Pragmatic Programmers)

By James W. Grenning

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Another day without Test-Driven Development means more time wasted chasing bugs and watching your code deteriorate. You thought TDD was for someone else, but it's not! It's for you, the embedded C programmer. TDD helps you prevent defects and build software with a long useful life. This is the first book to teach the hows and whys of TDD for C programmers.

TDD is a modern programming practice C developers need to know. It's a different way to program---unit tests are written in a tight feedback loop with the production code, assuring your code does what you think. You get valuable feedback every few minutes. You find mistakes before they become bugs. You get early warning of design problems. You get immediate notification of side effect defects. You get to spend more time adding valuable features to your product.

James is one of the few experts in applying TDD to embedded C. With his 1.5 decades of training, coaching, and practicing TDD in C, C++, Java, and C# he will lead you from being a novice in TDD to using the techniques that few have mastered.

This book is full of code written for embedded C programmers. You don't just see the end product, you see code and tests evolve. James leads you through the thought process and decisions made each step of the way. You'll learn techniques for test-driving code right next to the hardware, and you'll learn design principles and how to apply them to C to keep your code clean and flexible.

To run the examples in this book, you will need a C/C++ development environment on your machine, and the GNU GCC tool chain or Microsoft Visual Studio for C++ (some project conversion may be needed).

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Bibliography

- Sales Rank: #265022 in Books
- Brand: Brand: Pragmatic Bookshelf
- Published on: 2011-05-05
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .80" w x 7.50" l, 1.29 pounds
- Binding: Paperback
- 356 pages

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Editorial Review

Review

"This book is targeting the embedded-programmer-on-the-street and hits its target. It is neither spoon-fed baby talk nor useless theory-spin. In clear and simple prose, James shows working geeks each of the TDD concepts and their C implementations. Any C programmer can benefit from working through this book."

—Michael “GeePaw” Hill, Senior TDD coach, Anarchy Creek Software

"I have been preaching and teaching TDD in C for years, and finally there is a book I can recommend to fellow C programmers who want to learn more about modern programming techniques."

—Olve Maudal, C programmer, Cisco Systems

"James is a true pioneer in applying Agile development techniques to embedded product development...this book was worth waiting for. This is a good and useful book that every embedded developer should read."

—Bas Vodde, Author of "Scaling Lean and Agile Development" and "Practices for Scaling Lean and Agile Development," Odd-e, Singapore

About the Author

James Grenning trains, coaches, and consults worldwide. His considerable experience brings depth in both technical and business aspects of software development. James is leading the way to introduce Agile development practices to the embedded world. He invented Planning Poker and is one of the original authors of the Manifesto for Agile Software Development, February 2001.

Users Review

From reader reviews:

Scot Vines:

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Curtis Phillips:

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