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without Test-
Driven*

*Development
means more
time wasted
chasing bugs
and watching
your code
deteriorate.
You thought
TDD was for*

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*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*

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*first book to
teach the hows
and whys of
TDD for C
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*TDD is a
modern
programming
practice C
developers
need to know.
It's a*

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*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*

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*valuable
feedback every
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*You find
mistakes
before they
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warning of
design
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get immediate*

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*notification
of side effect
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*get to spend
more time*

adding

valuable

features to

your product.

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of the few

experts in

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decades of tra
ining, coaching
, and
practicing TDD
in C, C++,
Java, and C#
he will lead
you from being
a novice in*

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*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

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*see code and
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*James leads
you through
the thought
process and
decisions made
each step of
the way.*

*You'll learn
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next to the
hardware, and
you'll learn
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principles and
how to apply
them to C to
keep your code
clean and
flexible. To
run the*

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this book, you
will need a*

C/C++

development

environment on

your machine,

and the GNU

GCC tool chain

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what goes on
within a
compiler and
stimulates the
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of how this
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more complex
languages.
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software
development
practice that can
dramatically reduce
the number of
defects in systems,***

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C++ provides you
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need to know about
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quality code, and
you work hard to
maintain code
quality. It doesn't*

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troublesome system
dependencies how
to do dependency
injection, which is
particularly tricky in
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discover how to

keep a massive C++

system from

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*you to mastery of
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development in C++.

What You Need A

C++ compiler

running under

Windows or Linux,

preferably one that

supports C++11.

Examples presented

in the book were

built under gcc

4.7.2. Google Mock

1.6 (downloadable

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**for free; it contains
Google Test as well)
or an alternate C++
unit testing tool.**

***Most examples in
the book are written
for Google Mock,
but it isn't difficult to
translate them to
your tool of choice.***

***A good
programmer's editor
or IDE. cmake,
preferably. Of***

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*course, you can use
your own preferred
make too.*

*CMakeLists.txt files
are provided for
each project.*

*Examples provided
were built using
cmake version 2.8.9.*

*Various freely-
available third-party
libraries are used as
the basis for
examples in the*

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book. These

include: cURL

JsonCpp Boost

(filesystem,

date_time/gregorian,

algorithm, assign)

Several examples

use the boost

headers/libraries.

Only one example

uses cURL and

JsonCpp.

Programmers run

into parsing

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time. Whether it's a
data format like
JSON, a network
protocol like SMTP,
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or a simple
spreadsheet macro
language--ANTLR v4
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***process. ANTLR v4
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technology. In this
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how ANTLR
automatically builds
a data structure
representing the
input (parse tree)
and generates code***

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that can walk the tree (visitor). You can use that combination to implement data readers, language interpreters, and translators. You'll start by learning how to identify grammar patterns in language reference manuals and then slowly start building

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*increasingly
complex grammars.
Next, you'll build
applications based
upon those
grammars by
walking the
automatically
generated parse
trees. Then you'll
tackle some nasty
language problems
by parsing files
containing more*

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**than one language
(such as XML, Java,
and Javadoc). You'll
also see how to take
absolute control
over parsing by
embedding Java
actions into the
grammar. You'll
learn directly from
well-known parsing
expert Terence Parr,
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grammar**

**construction and
learn how to build
language tools
using the built-in
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real-world examples
and shows you how
to use ANTLR to
build such things as
a data file reader, a**

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