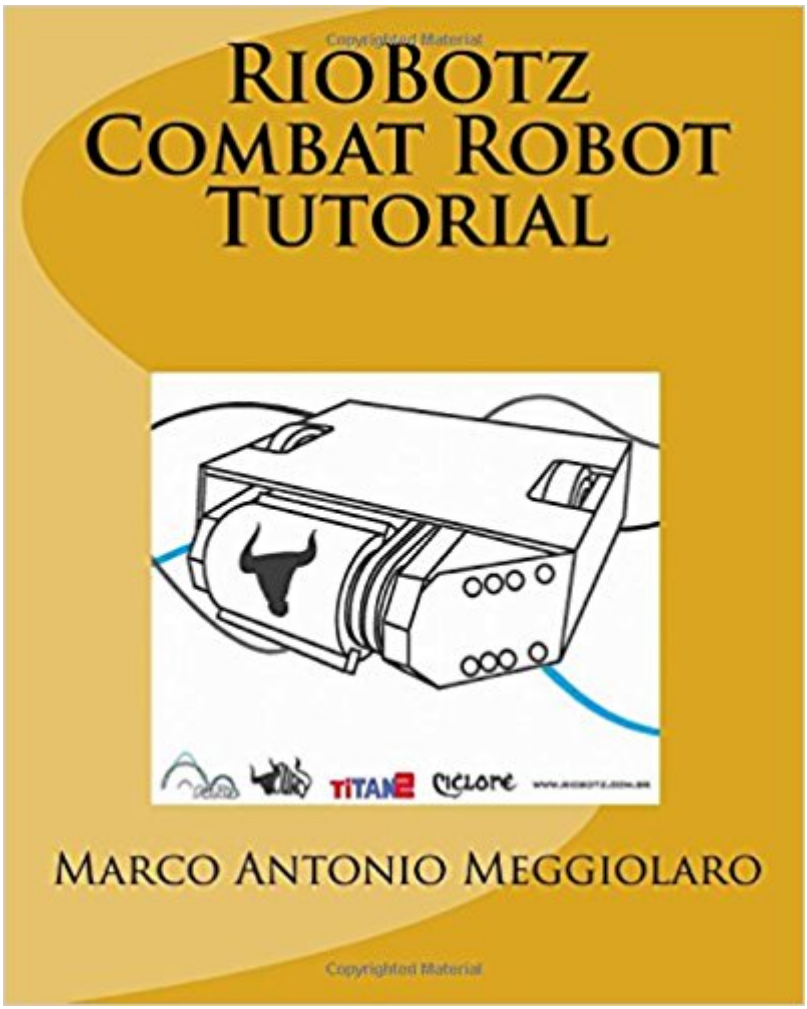
# RioBotz Combat Robot Tutorial



## Synopsis

Combat robotics is a sport that is practiced world-wide. It attracts all kinds of participants, especially people interested in technology, engineering, machine design, computer science, new technologies and their trends. The competitions involve one-on-one duels between radio-controlled robotic vehicles in a bulletproof arena. RioBotz is the Robotic Competition team from the Pontifical Catholic University of Rio de Janeiro, Brazil. The team is formed by control, mechanical and electrical engineering undergraduate students from the University. This 374-page tutorial tries to summarize the knowledge learned and developed by the team since its creation in 2003. It includes the information on competing as well as designing and building combat robots. This tutorial also includes build reports from all combat robots from RioBotz, including detailed drawings and photos, totaling almost 900 figures.

## Book Information

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## Customer Reviews

Marco Antonio Meggiolaro, Ph.D., is a professor at the Mechanical Engineering Department of the Pontifical Catholic University of Rio de Janeiro (PUC-Rio) since 2000. He graduated in Mechanical Engineering at PUC-Rio in 1994, having obtained his M.Sc. in this same institution in 1996. He got his Ph.D. summa cum laude in Mechanical Engineering at the Massachusetts Institute of Technology (MIT) in 2000. Prof. Meggiolaro’s main research areas are Robotics, Control Engineering and Materials Science, being the author of more than 170 published scientific works and the recipient of more than 50 awards.

I’ve purchased over 10 different robotics books in last 2 months, and each one has its own pros/cons, but this book includes everything. I can’t find any cons.....probably why you can’t find any used copies for less than $10. But after buying the book, and seeing its contents, its WORTH EVERY CENT! Well thought out, hundreds of illustrations, instructions useful, easily understood, and the graphics/pics are well taken, drawn, and informative. It takes you through each concept of building combative robots (using multiple chassis configurations), from the frame, internals, weapons, motorization, and controls. Only book you’ll reference!

The author has both extensive combat robotics experience and extensive engineering knowledge. The book interleaves short sections of engineering and materials analysis (characteristics of materials, weapons systems, motors, ...) with practical examples that illustrate the principles. There are also procedural examples that you’d never expect, such as the exact steps required to characterize an unknown DC motor that you might have picked up at a junkyard or swap meet. Finally there is a history of RioBotz various designs, their characteristics, strong points, and weak points. This narrative alone is practically worth the modest price. I really just cannot say enough good things about this piece of work.

A great book for anyone building a robot, not just for combat robots. They author is humble and he communicates in a clear simple manner. You get the feel for the evolution of the team’s thinking and the priorities in the development program. I enjoyed the book and will keep it as an essential reference for my Vex and FIRST teams.

Great Book

Incredibly detailed book on robot combat. These guys know there stuff and have packed everything regarding the subject within this book. Don’t let the plain cover fool you, its a great book with a massive amount of material.

Just a ton of information and great reference. I’m confident in building my first robot and got petty of ideas for the next one!

My 14 yr old son love reading this!!!!

Excellent guide to learn how to build a combat robot. This book uses an easy language for explain simple and complex subjects.It’s a good book to understand some subjects not only related to combat but in several topics in robotics.Highly recommended! It’s a bible of combat’s robots.



RioBotz Combat Robot Tutorial Ricky Ricotta’s Mighty Robot vs. The Unpleasant Penguins from Pluto (Ricky Ricotta’s Mighty Robot #9) Ricky Ricotta’s Mighty Robot vs. The Naughty Nightcrawlers From Neptune (Ricky Ricotta’s Mighty Robot #8) I, Robot (The Robot Series Book 1) The Complete Robot (Robot Series) I, Robot (The Robot Series) Image Formation in Low-Voltage Scanning Electron Microscopy (SPIE Tutorial Text Vol. TT12) (Tutorial Texts in Optical Engineering) Build Your Own Combat Robot Knife Fighting, Knife Throwing for Combat (Special Forces/Ranger-Udt/Seal Hand-To-Hand Combat/Special W) Once a Warrior--Always a Warrior: Navigating The Transition From Combat To Home--Including Combat Stress, Ptsd, And Mtbi Aerial Combat Escapades: A Pilot’s Logbook: The True Combat Aerial Adventures of an American Fighter Pilot Combat Headaches: A chiropractor’s advice for those who suffer from migraines, jaw pain, sinus pain and/or tension headaches (Combat Dis-Ease) (Volume 2) MR. ROBOT: Red Wheelbarrow: (eps1.91_redwheelbarr0w.txt) Spare Parts: Four Undocumented Teenagers, One Ugly Robot, and the Battle for the American Dream Robot Visions Robot Dreams Io, Robot The Caves of Steel: Robot, Book 1 Kraftwerk: I Was a Robot The Wild Robot