

# NEW BOOK FOR FTC ROBOTICS TEAMS

**Book Title:** *DESIGNING COMPETITIVE FTC ROBOTS: From Strategy to Robot Excellence*

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## Description

This book is written to guide teams in the design of a competition robot. It is organized into two sections: Robot Design (Chapters 1-5) and FTC Robot Development Journey (Chapters 6-8).

The first chapter lays a foundation for design suitable for teams relatively new to design. It describes four stages of design and gives robot design examples. It ends with a simple design project that illustrates these four stages of design. Chapters 2 through 5 describe 12 design steps that can be used during the four stages of design. These chapters include many examples drawn from coaching the FTC 7129 Robo Raiders team for many years. Review questions with answers are included in these chapters to aid learning. Templates for design reviews are provided to help you obtain outside reviews of your robot design to make it better.

Chapters 6 and 7 guide you in applying the design process to the FTC robotics competition context. Chapter 6 helps you focus your design effort to create a minimum viable robot, with a limited set of capabilities, for the first competition only a few weeks away. Chapter 7 helps you focus on improvements that are feasible for the next competition. Chapter 8 helps you communicate your robot development journey to others.

In all, this book helps you design a robot that is viable and excellent at each competition during a season. It also helps you communicate your robot development journey so that your team is recognized properly for your robot development achievements.

## Availability

The book is available through Amazon.com:

<https://www.amazon.com/dp/B09DN3999Y>

