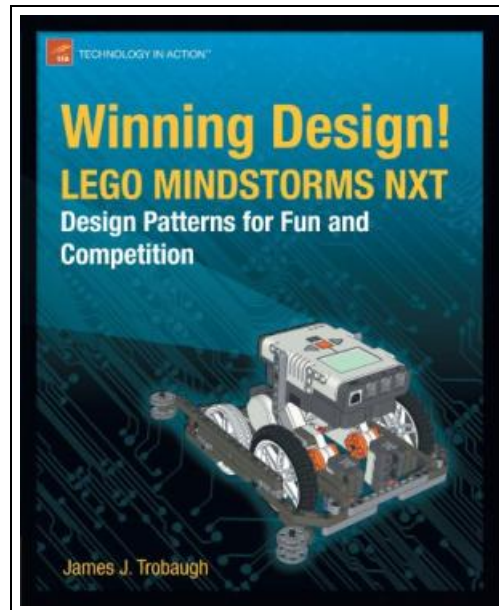


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Here is the finest publication we have read right up until now. It is actually written in easy words instead of difficult to understand. It has been written in a remarkably easy way in fact it is only right after I finished reading this book in which it basically changed me, modified the way I really believe.

(Prof. Vanessa Smitham V)

WINNING DESIGN: LEGO MINDSTORMS NXT DESIGN PATTERNS FOR FUN AND COMPETITION



Apress. Paperback. Book Condition: New. Paperback. 312 pages. Dimensions: 9.1in. x 7.4in. x 0.9in. Winning Design! LEGO Mindstorms NXT Design Patterns for Fun and Competition is about design that works. Its about building with LEGO MINDSTORMS NXT for fun, for education, but especially for competition. Author James Trobaugh is an experienced coach and leader in the FIRST LEGO League. In this book, he shares his hard-won knowledge about design principles and techniques that contribute to success in robotics competitions. Winning Design! unlocks the secrets of reliable design using LEGO MINDSTORMS NXT. Youll learn proven design patterns that you can employ for common tasks such as turning, pushing, and pulling. Youll reduce and compensate for variation in performance from battery charge levels and motor calibration differences. Youll produce designs that wont frustrate you by not working, but that will delight you with their reliable performance in the heat of competition. Good design is about more than just the hardware. Software counts for a lot, and Winning Design! has you covered. Youll find chapters on program design and organization with tips on effective coding and documentation practices. Youll learn about master programs and the needed flexibility they provide. Theres even a section on presenting your robot and software designs to the judges. Winning Design! is the book you need if your involved in competitions such as FIRST LEGO League events. Whether coach, parent, or student, youll find much in this book to make your design and competition experience fun and memorable, and educational. Please note: the print version of this title is black and white; the eBook is full color. What youll learn Build winning robots on a foundation of good chassis design Reduce variability in robot mechanical movements Design modular attachments for quick change during competition Solve navigation problems such as steering, squaring...



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