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EV3 is a further
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NXT. The system was
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September 2013. The
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EV3 set includes
motors (2 large servo
motor and 1 medium
servo motor), sensors

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things like follow a
line, avoid obstacles,
and even clean a
room

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game that uses arrays
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control race car, and
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this book, you'll have
the skills necessary to
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with Sensor Blocks

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Process data from the sensors using Data Operations Blocks Using Bluetooth and WiFi with EV3 Build unique EV3 robots that each presents different functions: the Spy Rabbit, a robot that can react to its surroundings; a SeaTurtle robot, Mr. Turto; the Big Belly

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Bot, a robot that eats
and poops; and a
Robotic Puppy Guapo
Discover ideas and
practices that will
help you to develop
your own method of
designing and
programming EV3
robots The book also
provides extensive
programming
guidance, from
the very basics of

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block programming
through data wiring.
You'll learn robotics
skills to help with
your own creations,
and can likely ignite a
lasting passion for
innovation. Exploring
LEGO Mindstorms is
the key to unlocking
your EV3 potential.

Design that works!
It's what you need if

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you're building and competing with LEGO MINDSTORMS EV3 robotics. You'll find uses for the new light sensors and gyro sensors in navigation, helping you to follow lines and make turns more consistently. Approach collision detection with greater confidence through EV3's ultrasonic

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sensor. Learn new Ev3 designs for power attachments. Winning Design! is about building with LEGO MINDSTORMS EV3 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

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shares his hard-won knowledge about design principles and techniques that contribute toward success in robotics competitions.

Winning Design!

unlocks the secrets of reliable design using LEGO MINDSTORMS EV3. You ' ll learn proven design patterns that you can

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employ for common tasks such as turning, pushing, and pulling. You ' ll reduce and compensate for variation in performance from battery charge levels and motor calibration differences. You ' ll produce designs that won ' t frustrate you by not working, but that will delight you

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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. You ' ll find chapters on program design and organization with tips on effective coding and documentation

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practices. You 'll
learn about master
programs and the
needed flexibility they
provide. There ' s
even a section on
presenting your robot
and software designs
to the judges.

Winning Design! is
the book you need if
you're involved in
competitions such as
FIRST LEGO League

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events. Whether
coach, parent, or
student, you ' ll find
much in this book to
make your design and
competition
experience fun and
memorable, and
educational. Don't be
without this book if
you're leading a team
of young people as
they build skills
toward a future in

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technology. What You
Will 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 up,

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and collision
detection Manage
software using master
programs and other
techniques Power
your robot
attachments via
motors and

pneumatics Who This
Book Is For Students,
parents, teachers, and
coaches involved in
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