

## Ev3 Software

Extreme NXTLEGO EV3. Programación de Robots Michael Gasperi Daniel Zaldívar Navarro

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although lego mindstorms nxt allows anyone to build complex inventions there are limits to what you can do with what comes inside the box this book shows you how to advance the nxt with more than 45 exciting projects that include creating a cool magic wand that writes words in thin air building a remotely guided vehicle and constructing sophisticated robots that can sense color light temperature and more all projects are explained with easy to follow step by step instructions so you ll be able to create them successfully whether you re a novice or an expert this book also shows you how to expand the programming software and use the alternative language nxc new input devices such as keypads sensors and even the human body are covered along with fun games such as surfing pong and simon on the serious side there are classic engineering challenges such as controlling an inverted pendulum making a robot that follows a wall and building several light seeking vehicles some projects are just entertaining such as the etch a nxt others are useful such as a motorized camera mount that takes panoramic photographs this second edition accounts for the important changes found in the next generation nxt and it also covers the original concepts in greater depth details are presented for practically unlimited expansion of the nxt inputs and outputs by using the i2c communications bus and several power amplifier designs allow the nxt outputs to drive bigger motors instructions

are also included for adapting lego power functions motors to work directly with the nxt

lego ev3 programación de robots es un libro para entusiastas de la robótica y la programación de robots lego mindstorms ev3 los capítulos inician con prácticas sencillas que aumentan de complejidad gradualmente y están desarrolladas en los lenguajes de programación ev3 g gráfico robotc lenguaje c lejos ev3 java y el toolbox mindstorms de matlab el robot lego ev3 presenta características interesantes respecto a su antecesor el nxt tiene conexión wifi almacenamiento externo con mini tarjeta un mayor número de puertos para conectar sensores compatibilidad con plataformas como ios y android compatibilidad con sensores de otros fabricantes y mayor capacidad de procesamiento entre otras el objetivo de este libro es brindar al lector los fundamentos para introducir o reforzar conocimientos en las áreas de computación informática electrónica matemáticas robótica y sistemas inteligentes a lo largo de la obra el lector desarrollará pequeños proyectos integradores que rápidamente se materializarán mediante prototipos reforzando estas áreas de conocimiento este libro está orientado a profesionales estudiantes y autodidactas por su pauta estructura y lenguaje didáctico es idóneo para ser usado como apoyo en cursos o talleres de robótica finalmente la construcción del código y los videos de todos los robots propuestos en el libro se encuentran disponibles para su descarga dentro del material adicional alojado en la página de este libro el libro contiene material adicional que podrá descargar accediendo a la ficha del libro en la ma es este material incluye la construcción código y videos de todos los robots propuestos en esta obra

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