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# Proyectos con Robots LEGO®

Daniel **Zaldívar** Navarro  
Erik V. **Cuevas** Jiménez  
Marco A. **Pérez** Cisneros



Ra-Ma®

ediciones de 

# Proyectos Con Robots Lego

**Miguel Agullo**



## Proyectos Con Robots Lego:

*Proyectos con Robots LEGO* Daniel Zaldívar Navarro, Este libro fue escrito para estudiar el rea de la rob tica y la programaci n mediante proyectos con robots MINDSTORMS de LEGO Cada cap tulo presenta interesantes proyectos sencillos de comprender y que han sido organizados para que el lector pueda avanzar gradualmente hasta desarrollar implementaciones con un mayor nivel de complejidad El material puede ser usado para la ejecuci n particular de un proyecto de rob tica mecatr nica automatizaci n control programaci n o tambi n como fundamento para introducir y reforzar conocimientos en las reas de computaci n inform tica electr nica mec nica matem ticas f sica etc motivando a los lectores en la utilizaci n de la rob tica para la generaci n de ideas innovadoras que se materialicen r pidamente en prototipos de robots que posean el potencial de soluci n a algunos problemas cient ficos e industriales Por otro lado tambi n el material ha sido estructurado como apoyo en la impartici n de cursos y talleres de rob tica o para que cualquier estudiante explore autoaprenda y desarrolle sus capacidades en el uso de esta tecnolog a El libro ha sido pensado para entusiastas de la tecnolog a estudiantes de primaria secundaria bachillerato universidad y hasta cient ficos del rea Para esto se organiz en cap tulos en los que los proyectos se desarrollan utilizando distintos lenguajes de programaci n que permiten explotar diferentes grados de complejidad de la plataforma rob tica Entre estos lenguajes algunos son abiertos y gratuitos otros son gr ficos NXT G algunos basados en plataformas en lenguaje C NXC y ROBOTC o Java lejosNXJ Se trabaja tambi n la plataforma probablemente de mayor uso por la comunidad cient fica t cnica el Matlab Simulink ECROBOT y el Toolbox MATLAB RWTH Daniel Zaldivar Navarro Doctor en Rob tica e Inteligencia Artificial por la Universidad libre de Berl n sus l neas de investigaci n son el control de robots y el procesamiento digital de im genes en robots Erik Cuevas Jim nez Doctor en Rob tica y Visi n Artificial por la Universidad libre de Berl n sus l neas de investigaci n son las t cnicas inteligentes y bioinspiradas aplicadas al procesamiento digital de im genes en robots Marco Antonio Perez Cisneros Doctor en Rob tica por UMIST Reino Unido sus l neas de investigaci n son la rob tica y el control visual en robots *Proyectos con robots Lego* Marco Pérez-Cisneros,Erik Valdemar Cuevas Jiménez,Daniel Zaldívar,2014 [Proyectos con robots Lego](#) Erik Valdemar Cuevas Jiménez,Marco A. Pérez Cisneros,2015 Cada cap tulo presenta interesantes proyectos sencillos de comprender y que han sido organizados para que el lector pueda avanzar gradualmente hasta desarrollar implementaciones con un mayor nivel de complejidad El material puede ser usado para la ejecuci n particular de un proyecto de rob tica mecatr nica automatizaci n control programaci n o tambi n como fundamento para introducir y reforzar conocimientos en las reas de computaci n inform tica electr nica mec nica matem ticas f sica etc motivando a los lectores en la utilizaci n de la rob tica para la generaci n de ideas innovadoras que se materialicen r pidamente en prototipos de robots que posean el potencial de soluci n a algunos problemas cient ficos e industriales **LEGO EV3. Programaci n de Robots** Daniel Zaldívar Navarro,Erik Valdemar Cuevas Jiménez,Marco Antonio Pérez Cisnero,2018-05-08 LEGO EV3 Programaci n de Robots es un libro para entusiastas de la rob tica 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 ideal 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 Web de este libro El libro contiene material adicional que podrá descargar accediendo a la ficha del libro en [www.ra-ma.es](http://www.ra-ma.es) Este material incluye la construcción del código y videos de todos los robots propuestos en esta obra **10**

**Cool Lego Mindstorm Robotics Invention System 2 Projects** Syngress, Jeff Elliott, Mario Ferrari, 2002-11-29 A guide to using the Lego Mindstorms kit to build different kinds of robots which includes instructions for a variety of projects which can be completed in under an hour **Build and Code Creative Robots with LEGO BOOST** Ashwin Shah, 2021-11-25 Have fun with LEGO BOOST and Scratch programming while building smart robots that can interact with the world around you Key Features Get up to speed with building your first LEGO BOOST robotic model Build interesting robotics prototypes that can perform tasks just like real life machines Discover exciting projects to bring classic LEGO bricks to life using motors and sensors Book Description LEGO BOOST is a feature rich creative toolbox that helps kids to develop science technology engineering and mathematics STEM skills in a fun way The LEGO BOOST kit consists of motors sensors and more than 840 LEGO pieces to bring various multifunctional robots to life This book will take you on an interesting and enjoyable journey where you will have fun building robots while developing your problem solving and logical thinking skills This book is an end to end guide that will take you from a beginner to expert level of robot building with LEGO BOOST and Scratch Starting with the unboxing and a brief introduction to LEGO BOOST you'll quickly get your first robotic model up and running You'll understand how to use the electronic and non electronic components and have fun building a range of intriguing robotics projects with increasing complexity and advanced functionality Throughout the book you'll work on a variety of amazing projects such as building your own R2D2 a fictional character from Star Wars that will pique your curiosity to learn robotics and help you explore the full potential of the LEGO BOOST kit Once you've had fun working with the projects you'll be introduced to an interesting challenge for you to solve by yourself By the end of this book you'll have gained the skills to

build creative robotics projects with the LEGO BOOST creative toolbox and have built on your logical thinking and problem solving skills What you will learn Unbox the LEGO BOOST kit and understand how to get started Build simple robots with gears and sensors Discover the right parts to assemble your robots Program your BOOST robot using the Scratch 3.0 programming language Understand complex mechanisms for advanced robots Develop engaging and intelligent robots using electronic and non electronic components Create more than 10 complete robotics projects from scratch Develop logical thinking and unleash your creativity Who this book is for This book will help 7 to 12 year old children who want to learn robotics with LEGO BOOST develop their creativity logical thinking and problem solving skills Teachers trainers and parents who wish to teach robotics with LEGO BOOST and Scratch will also find this book useful *10 Cool Lego Mindstorm Dark Side Robots Transports and Creatures* Kevin Clague, Syngress, 2002-09-13 A guide to the LEGO Mindstorms Robotics Invention System explains how to build Lego robots including Ludic Ordinance Units Scorpion Assassin Droids Dragons X Stormers and Imperial Hounds **Creative Projects with LEGO Mindstorms** Benjamin Erwin, 2001 This guide to the LEGO Mindstorms Robotics Invention System shows readers how to design and build their own robots from LEGOs with 16 specific robot design instructions included on the CD ROM The book focuses on teaching readers the critical thinking behind robot building and provides next step suggestions The CD ROM also includes movies code examples in RCX code ROBO LAB software and more LEGO Mindstorm Masterpieces Miguel Agullo, 2003-03-30 In LEGO Mindstorm Masterpieces some of the world's leading LEGO Mindstorms inventors share their knowledge and development secrets The unique style of this book will allow it to cover an incredibly broad range of topics in unparalleled detail Chapters within the book will include detailed discussions of the mechanics that drive the robot and also provide step by step construction diagrams for each of the robots This is perfect book for LEGO hobbyists looking to take their skills to the next level whether they build world class competitive robots or just like to mess around for the fun of it For experienced users of LEGO Mindstorms LEGO Mindstorms Masterpiece is composed of three fundamental sections Part One A review of the advanced robot building concepts and theories Part Two Step by step building instructions for a series of complex models The companion programming code is included along with in depth explanations of concepts needed for the specific models Robots include Line Followers Bipeds Stair and Wall Climbers a Joystick Controlled Cannon a Robotic Game Player Plant Waterer and a Drink Mixer Part Three Ideas for modifying the building instructions by expanding the pieces and kits Topics covered 1 Behavior This section includes robots designed to interact with the environment or with other robots Behavior is the key word as the robots are designed to behave in some specific way and all the technical details and implementations are secondary to this main goal 2 Motion The projects in this category are aimed at solving some specific motion problem The focus of these robots is on the mechanical techniques rather than on software 3 Interaction These projects allow the reader to build robots for the purpose of interacting with the user by playing games or responding to user commands in real time 4 Automation Opposite of the

previous category this one hosts robots designed to perform totally automated operations These projects will build robots able to complete tasks without human intervention 5 Calculus The most abstract of the sections contain robots with minimum knowledge of the external world Pneumatic ALUs and Turning machines are fully explained Advanced users need inspiration too Advanced projects with suggestions for enhancements and improvements make the explanations of the theories and physics of the robots as well as the complete building instructions make this book extremely useful to readers long after the building of the robots has been completed Written by the DaVincis of LEGO and other highly regarded LEGO personalities This experienced authoring team is assembled of highly respected and visible superstars in the LEGO community Proven success in the LEGO MINDSTORMS market Syngress has already had a hit with the bestselling book Building Robots with LEGO MINDSTORMS

Antología de Recursos digitales para desarrollar las Inteligencias Múltiples Editorial Digital UNID,2015-02-12 Este libro es el conjunto de las memorias y de la experiencia de los docentes de la Universidad Interamericana para el Desarrollo UNID que tomaron el curso Recursos digitales para desarrollar las inteligencias múltiples Los maestros platican cual fue su experiencia en el aula y como lo han aplicado con sus alumnos

**Las tecnologías de la información y la comunicación en las prácticas pedagógicas**,2009 Robótica educativa. Andrés Salomón Vázquez Fernández-Pacheco,Francisco Ramos de la Flor,Raúl Fernández Rodríguez,2015-09-01 Los robots están llamados a revolucionar el siglo XXI al igual que lo hizo la Información en el siglo XX De hecho están cada vez más presentes en todos los aspectos sociales económicos de la humanidad Existen entre otros robots industriales por ejemplo un robot de pintura que mejoran la calidad y la productividad de las empresas robots cirujanos por ejemplo robot Da Vinci que permiten operaciones muy delicadas y poco invasivas robots militares por ejemplo drones que realizan acciones de vigilancia y ataques precisos robots espaciales por ejemplo Curiosity que realizan operaciones de exploración de otros mundos Pero también existen robots que interactúan a diario con las personas como pueden ser los robots aspiradora por ejemplo Roomba o incluso los robots o coches autónomos con los que están apostando fuertemente compañías tan importantes como Google Los robots educativos permiten a los jóvenes introducirse a este nuevo mundo tecnológico y además son la mejor herramienta didáctica para la enseñanza de las disciplinas académicas STEM ciencia tecnología ingeniería y matemáticas Por eso la robótica es una materia que se está empezando a implantar a nivel mundial en los planes docentes de cursos de todas las edades En este libro hemos incluido los contenidos básicos de un curso introductorio a la robótica que sirva de base teórica tanto al profesor como al alumno de enseñanza secundaria En él se ilustran conceptos básicos con explicaciones didácticas y actividades incluyendo también contenidos matemáticos más avanzados para complementar los conocimientos del profesor y para aquellos alumnos de últimos cursos especialmente motivados Como complemento a este volumen te rico los estudiantes y profesores tienen disponible otro libro donde se reúnen todas las actividades prácticas propuestas en este utilizando robots educativos basados en Arduino Lego y Android Además en la página web [www.automaticayrobotica.es](http://www.automaticayrobotica.es) el lector tendrá disponible el siguiente material adicional Presentaciones de

cada tema que pueden ser utilizadas por los profesores en clase Más ejercicios y problemas resueltos Instrucciones de montaje de robots educativos basados en Lego y Arduino Programas ejemplo para Arduino Lego y AppInventor Soporte

**The LEGO BOOST Idea Book** Yoshihito Isogawa,2018-09-25 The LEGO BOOST Idea Book contains dozens of ideas for building simple robots with the LEGO BOOST set The LEGO BOOST Idea Book explores 95 creative ways to build simple robots with the LEGO BOOST set Each model includes a parts list minimal text screenshots of programs and colorful photographs from multiple angles so you can re create it without step by step instructions You ll learn to build robots that can walk and crawl shoot and grab objects and even draw using a pen Each model demonstrates handy mechanical principles that you can use to come up with your own creations Models come with building hints and ideas for putting your own spin on things Best of all every part you need to build these models comes in the LEGO BOOST Creative Toolbox set 17101

**Learning LEGO MINDSTORMS EV3** Gary Garber,2015-01-27 This book is for the hobbyists builders and programmers who want to build and control their very own robots beyond the capabilities provided with the LEGO EV3 kit You will need the LEGO MINDSTORMS EV3 kit for this book The book is compatible with both the Home Edition and the Educational Edition of the kit You should already have a rudimentary knowledge of general programming concepts and will need to have gone through the basic introductory material provided by the official LEGO EV3 tutorials [10 Cool Lego Mindstorm Ultimate Builders Projects](#) Mario Ferrari,Guilio Ferrari,2002-12-14 10 lego robot projects you can build in under an hour

**Propuestas de innovación educativa en la sociedad de la información** Santiago Pérez Aldeguer,Guadalupe Castellano Pérez,Alfredo Pina Calafi,2017-07-31 Este volumen se compone de quince capítulos y cubre temas como robótica educativa aplicaciones móviles en el aula metodologías de enseñanza aprendizaje y entornos virtuales ecológica educación en valores e inteligencia emocional

**Basic Robot Building With LEGO Mindstorms NXT 2.0** John Baichtal,James Floyd Kelly,2013-01-07 Basic Robot Building with LEGO Mindstorms NXT 2.0 ABSOLUTELY NO EXPERIENCE NEEDED Learn LEGO Mindstorms NXT 2.0 from the ground up hands on in full color Ever wanted to build a robot Now s the time LEGO Mindstorms NXT 2.0 is the technology and this is the book You can do this even if you ve never built or programmed anything Don t worry about where to begin start right here John Baichtal explains everything you need to know one ridiculously simple step at a time and shows you every key step with stunningly clear full color photos You won t just learn concepts you ll put them to work in three start to finish projects including three remarkable bots you can build right this minute with zero knowledge of programming or robotics It s going to be simple and it s going to be fun All you need is in the box and in this book Unbox your LEGO Mindstorms NXT 2.0 set and discover exactly what you ve got Build a Backscratching Bot immediately Connect the NXT Intelligent Brick to your computer Windows or Mac Navigate the Brick s menus and upload programs Start writing simple new programs painlessly Build the Clothesline Cruiser a robot that travels via rope Program your robot s movements Learn to create stronger tougher models Help your robot sense everything from distance and

movement to sound and color Build a miniature tank treaded robot that knows how to rebound Write smarter programs by creating your own programming blocks Discover what to learn next and which additional parts you might want to buy JOHN BAICHTAL is a contributor to MAKE magazine and Wired's GeekDad blog He is the co author of The Cult of Lego No Starch and author of Hack This 24 Incredible Hackerspace Projects from the DIY Movement Que Most recently he wrote Make Lego and Arduino Projects for MAKE collaborating with Adam Wolf and Matthew Beckler He lives in Minneapolis Minnesota with his wife and three children

**Explorando La Robótica** Javier Arambarri Calvo,2024-10-02 Quieres mejorar el dise o de tus robots Lego para la First Lego League y la World Robot Olympiad aprender algoritmos de programaci n para mejorar el comportamiento de los robots y a preparar una presentaci n ideal para cautivar al jurado Si eres estudiante o docente de Lego Spike Prime EXPLORANDO LA ROB TICA es ideal para ti Contado por antiguos participantes con un amplio y reconocido palmar s y actuales jueces y entrenadores en la First Lego League Adem s podr s descargar todos los dise os y programaci n explicada en el libro

**Procesos y programas de neuropsicología educativa** ,2015 Este interesante libro intenta combinar tanto conocimiento te rico sobre los procesos del aprendizaje como pr ctico incluyendo los instrumentos para evaluarlo y los programas Adem s el libro aborda desde los procesos m s b sicos como los m s complejos y las alteraciones del aprendizaje As el lector podr encontrar cap tulos la evaluaci n de procesos sensoriales como la audici n y la visi n a cap tulos sobre c mo evaluar la memoria la atenci n la funci n ejecutiva o la cognici n social en el aula Adem s tambi n se incluyen cap tulos sobre la evaluaci n de la discalculia o el d ficit de atenci n y o hiperactividad

**Innovaci3n en la docencia e investigaci3n de las ciencias sociales y de la educaci3n.** Rabia Ma Rabet Temsamani,Carlos Hervás Gómez,2021 En esta obra tenemos el honor de aunar art culos firmados por autores de universidades e institutos de varios pa ses y redactados adem s del espa ol en ingl s y portugu s que manifestaron tanto su deseo como inter s de compartir su trabajo con el lector El denominador com n de estos autores es el af n de innovar en la docencia e investigaci n en sus respectivas l neas de inter s lo cual garantiza la adquisici n de las competencias necesarias para la formaci n especializada y el desarrollo de habilidades pr cticas Por ser un libro de varios autores que pertenecen a la disciplina de ciencias sociales y de educaci n ser a ut pico crearse perspectivas en lo que respecta a un escenario o finalizaci n coherente de contenido o bien imaginar un hilo de Ariadna como aquel que puede aparecer en los libros de varios autores bajo la coordinaci n de editores No obstante el lector puede gozar viajando de un cap tulo a otro pudiendo descubrir en cada uno nuevas reflexiones nuevas preocupaciones nuevas ideas y en cada uno con su objetivo m todo y estrategia pero compartiendo todos el mismo fin que es el de hacer aportaci n a la innovaci n docente e investigaci n de las ciencias sociales y de la educaci n Igualmente ser a una fructuosa oportunidad de suscitar inter s crear debates y alimentar cr ticas constructivas Nos queda por felicitar a los autores por sus trabajos y agradecerles por optar por compartir el fruto de sus enormes horas de trabajo con todos deseando una perpetua fertilidad a la innovaci n docente e investigaci n en las ciencias sociales y de la educaci n

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