



LEGO MINDSTORMS

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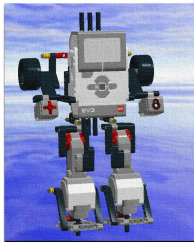
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LEGO MINDSTORMS

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Robot Build InstructionsFrom www.manualslib.com - 22 January 2021, 15:34

“ View and Download LEGO Mindstorms EV3 build instructions online. Dancing Robot. Mindstorms EV3 toy pdf manual download.”

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Make It Smarter and Faster

From makecode.mindstorms.com - 22 January 2021, 15:29

“ Design, build and program a robotic creature that can sense its environment and respond by moving.”

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22 January 2021, 15:21Up an Incline | MINDSTORMS EV3
Lesson PlanFrom education.lego.com - 22 January 2021, 15:21

“ Help your students design, build and program a robot that can move itself up an incline as steep as possible. Can they test different coding to find a

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Ev3 teachers guide web



solution?"



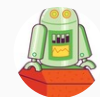
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Lego Mindstorms EV3 – blog.digidigital.de



From [blog.digidigital.de](#) - 22 January 2021, 15:04 

LEGO EV3 projects (EN/DE)



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Make It Move Without Wheels



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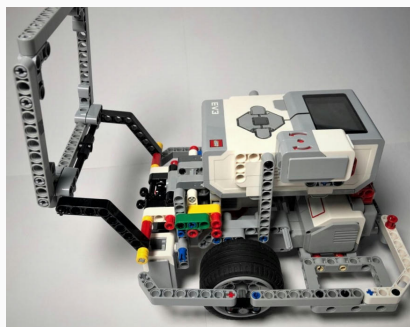
From makecode.mindstorms.com - 22 January 2021, 15:18 [↗](#)

"Design, build and program a robot that can move itself using no wheels for locomotion."



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22 January 2021, 14:58

LEGO MindStorms EV3 – Intermediate Courses – [↗](#)



From thecodingfun.com - 4 June 2020, 07:53 [↗](#)

"Intermediate Course Content
This is the intermediate courses for the fans of LEGO MindStorms EV3. Please note that you need to learn the beginner courses first before you begin this intermediate courses, or you have learned the basics of LEGO block

programming either in school or in other training programs. LEGO Programming Blocks Unit 1:..."



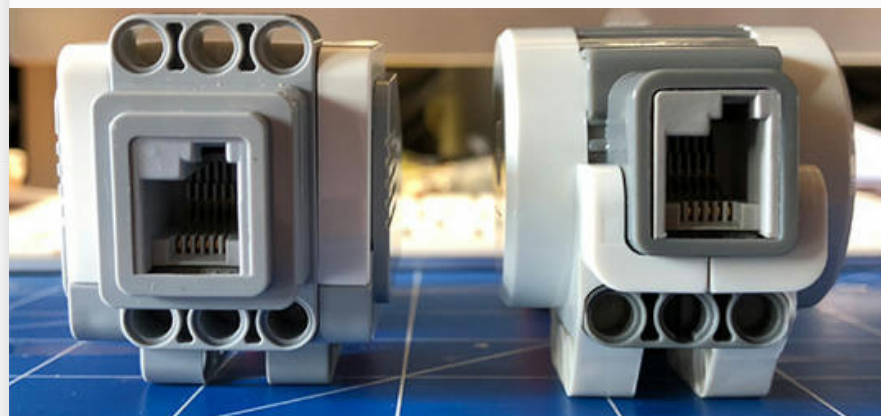
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Hackster.io - The community dedicated to learning hardware. [↗](#)



From www.hackster.io - 22 January 2021, 09:46 [↗](#)

Compatibilità motori e sensori NXT su Lego Mindstorms EV3 [↗](#)



From www.maffucci.it - 14 July 2018, 13:38 [↗](#)

"Posseggo diversi brick NXT ma come saprete programmarli con l'ambiente di sviluppo Lego ufficiale non è più possibile a meno che non si utilizzano altri ambienti di sviluppo su cui poter programmar..."



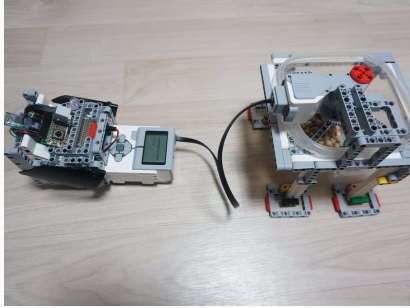
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22 January 2021, 09:40

Projects [↗](#)



From www.ev3dev.org - 22 January 2021, 09:40 [↗](#)

"This is where we keep a collection of some of the projects that people are working on using ev3dev. We invite you to click through the links below to see what cool stuff ev3dev can do!"



“ Hackster is a community dedicated to learning hardware, from beginner to pro. Share your projects and learn from other developers. Come build awesome hardware! ”



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20 January 2021, 08:55

How to remote control vehicle in EV3 Classroom



From [youtu.be](#) - 14 January 2021, 18:00 

“ Remote control in EV3 Classroom by Infrared Sensor and Beacon from Lego Mindstorms 31313 Set”



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19 January 2021, 23:29



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20 January 2021, 08:49

PORK3R Building Instructions



From [youtu.be](#) - 15 January 2019, 17:31 

“ My first one kit build of 2019! Since the Year of the Pig is coming soon, here's a pig you can build just using the parts of the LEGO Mindstorms 31313 set. You should also be able to build this if you have the 45544 and 45560 sets, although you'll have to make do without the mudguard pieces on top of the head and you'll need to swap the fairings on the legs. Medium motor makes it walk forwards and backwards and the large motor makes the head bob up and down. Have fun!”



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19 January 2021, 23:09

Mindstorm Lego brick designing, simulating, programing



STEM robots simulation software I Miranda [↗](#)



From www.miranda.software - 19 January 2021, 23:29 [↗](#)

“ miranda, universal software for STEM robots simulation. Challenges can be create, STEM robots can be programmes with Scratch or Python.”



robotix's insight:
a pagamento



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19 January 2021, 21:38

【Lau Mo】LEGO EV3 plane 《 Wind Plane 風力旋轉小飛機》 building instructions of 45544 MINDSTORMS Core Set [↗](#)



From youtu.be - 2 January 2021, 14:43 [↗](#)

“ The software miranda offers a full toolchain to design robots from a Lego ev3 items library, write program with Scratch or Python, simulate behaviors in a physical world. The created behaviores can then be uploaded to a real ev3 brick (free ev3dev firmware www.ev3dev.org is required). miranda also lets import 3d models created with LeoCad (www.leocad.org). You can also create online challenges may also be created for your students.

More informations, trial versions:
<http://www.miranda.software>

The app you need

A software to simulate all your robots and create challenges

Create simulations of existing or purely imaginary robots in a few clicks. Share your creations with your friends. Create challenges for your students. Here are some of the activities offered by miranda.

Why simulating STEM robots?

The interest of simulation is not to replace real STEM robots but rather to enrich activities with the possibility of simulating more robots and also to create challenges.

This last point is very important because it allows students to train alone, to face the succession of failures and successes by programming robots with Scratch or Python.

Motivation is a key point in learning, knowing how to program an STEM robot is good, being able to carry out a specific mission while respecting a set point is even better.

From [youtu.be](#) - 17 January 2021, 16:21 [🔗](#)

" Only use one set of LEGO 45544 MINDSTORMS Education EV3 Core Set.

Use rotation to generate wind to make an airplane spin.

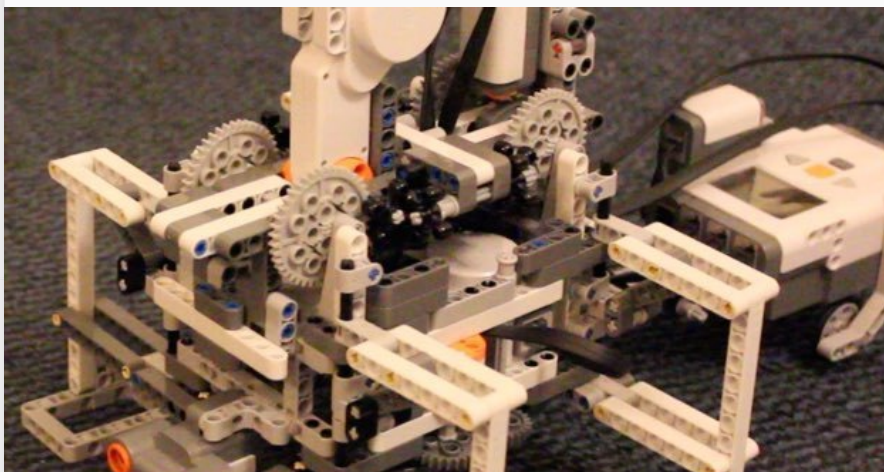
There are building instructions in the video.

If you like this video don't forget to subscribe :)"



Scooped by [robotix](#)
14 January 2021, 15:01

<http://martin-melcher.de/martin-melcher.de/LEGO/LEGO.html> [🔗](#)



Whether with the robots or predefined drones offered in miranda (Vbot, Thymio, Ozobot, Lego, Dash, Edison, etc.) or purely virtual robots, students can experiment at will.

Simulation is not the enemy of the real, it allows you to enrich activities on real equipment and also to work when real resources are not accessible. The behaviors tested in Scratch or Python can be exploited on real STEM robots.

Creating your own simulations is also learning to create educational content for others with the desire to advance them and to distract them intelligently.

Creating your own simulated STEM robots also means experimenting with mechanical solutions and using them in simulations to analyze their behavior."



Scooped by [robotix](#)
14 January 2021, 15:12

"Robert The Walking Robot LEGO Mindstorms EV3" [🔗](#)



From [youtu.be](#) - 23 March 2020, 15:00 [🔗](#)

" Hey guys!!! I've been wanting to build a walking robot out of the EV3 kit like the wind up toys for a long time!! I got the chance with the "Robert" Robot!! He walks just like the wind up toy! Here is the link that I got the build from. Hope you enjoy! <https://rebrickable.com/mocs/MOC-8695/>



From martin-melcher.de - 14 January 2021, 15:01 [🔗](#)
robot a 4 zampe con NXT



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10 January 2021, 23:51

LEGO walking robot instruction 2 (Isogawa Isogawa yosihito's work) [🔗](#)



From youtu.be - 29 December 2019, 03:21 [🔗](#)
“ Thank you for watching!”



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10 January 2021, 23:46

[Artem%2016/ev3-robert/#comments](#)
#legorobotics #legoev3”



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10 January 2021, 23:57

LEGO Printer [🔗](#)



From youtu.be - 6 May 2017, 20:25 [🔗](#)

“ This is a printer built using the LEGO Mindstorms EV3 set (31313). It uses a gel pen to draw text at different sizes and the EV3 logo, but I plan to expand it in the future to print more things, as well as process input to print on demand.

This is the first part in a larger project and I will be posting building instructions and more information when I post the next video for it in a couple of weeks.

<http://jkbrickworks.com>

Music: Detour - Gunnar Olsen

You can follow me below...

Facebook: [http://www.facebook.com/JKBrickworks](https://www.facebook.com/JKBrickworks)

Lego Mindstorms EV3 Walker (inspired by Audiultra Robotics)



From [youtu.be](#) - 21 July 2018, 15:47 

" This is a sort of revamp of an older robot built by Audiultra Robotics, a channel that mainly focuses on Lego walkers that I strongly encourage to check out. The original model was built with the NXT, so I decided to remake it using the newer and somewhat sleeker EV3. All credit goes to Audiultra Robotics for both the overall layout and the walking mechanism; I simply "translated" the design with newer pieces and did some minor adjustments in order to fit the P Brick and the two L Motors, which have some slightly different sizes compared to the previous NXT ones.

The original model by Audiultra was specifically designed to be as lightweight as possible, and had a mass of 630g. Mine is definitely heavier, being about 750g, but that is mainly due to the fact that the EV3 P Brick with batteries weighs a lot more than the NXT's.

Here's a link to Audiultra Robotics' channel

<https://www.youtube.com/channel/UCcHCdFX2AU4lQ0VWCKlpLKQ/>
[featured](#)

Original Model

<https://www.youtube.com/watch?v=nqbLEkiH6qE&t=7s>

High quality pictures of this robot if anyone wants to try to build it

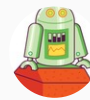
<https://www.flickr.com/photos/154598022@N07/>

Twitter: <http://twitter.com/jasonallemann>

Instagram: <https://instagram.com/jasonallemann>

Thanks for watching!

Jason"



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10 January 2021, 23:49

Lego Mindstorms EV3 Crawler! A Lego Bipedal Walker



From [youtu.be](#) - 28 October 2020, 15:27 

" This is my newest Lego Mindstorms creation: it's a rather compact robot designed for bipedal locomotion, but thanks to the inclusion of the touch and color sensors it can receive external inputs like ambient light, and can be programmed to respond to such things. The overall walking mechanism is quite simple in concept, but I will make sure to provide pictures of this robot for the ease of construction.

Some of the gearing that controls the shifting of the P brick is technically an illegal connection; I had to connect it like that because I currently do not own the right gear for the radius needed (if you have the most recent gear that was introduced in the Harley motorcycle and can also be found in sets like Spike Prime, it should then fit perfectly).

[albums/72157697719550931](#)

Music: "Voltaic" Kevin MacLeod (incompetech.com)
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<http://creativecommons.org/licenses/by/3.0/>

Thank you for watching! "



Scooped by [robotix](#)
10 January 2021, 23:41

LEGO Mindstorms EV3 Model Robot Design [↗](#)



From [rookieelectronics.com](#) - 30 July 2015, 23:38 [↗](#)

" Demonstration <https://www.youtube.com/watch?v=HsLqiShzP0k> Looking for an open-box, simple and effective EV3 Robotic Design? GenBot is a simple Robotic Design model for"



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10 January 2021, 18:11

Maze Solving Lego EV3 Robot [↗](#)



With my setup the gears may skip sometimes, but I haven't noticed any wear on the gears or any issues with the motor.
Also, since parts of the feet always stay on the ground, not all surfaces may be ideal for this walker.

Here are some pictures of the model if you want to try to build it:
<https://flic.kr/s/aHsmSnXqC7>

Music: "Transistor", by Crinkles
<http://crinklesmusic.com/#music>
<https://crinklesmusic.bandcamp.com/>



Scooped by [robotix](#)
10 January 2021, 23:43

"The LEGO Mindstorms EV3 Trike (Easy Building Instructions & Maneuver) [↗](#)



From [youtu.be](#) - 10 January 2019, 18:30 [↗](#)

" Hey everyone!!! This video shows you how to build a Trike from the LEGO Mindstorms EV3 kit. It only takes several minutes to build and its cool to maneuver!! Also, hit up my teespring website for a cool Hino Robotics Sticker!!!
If you order today through the weekend, you'll get 20% off.

https://teespring.com/hino-robotics-sticker?utm_medium=email&utm_source=Seller_mktauto_us&utm_campaign=seller_campaign_launch_2#pid=663&cid=102934&sid=front

#legoeducation #legorobotics #Trike"

From [youtu.be - 15 September 2017, 17:12](https://youtu.be/15September2017,17:12) ↗

" This is a Lego EV3 robot I made for TechTown to solve a maze. It's programmed with Microsoft's SmallBasic and EV3Basic. Here's the link to the code: <https://github.com/aramperez/EV3-Maze-Solver>."



Scooped by [robotix](#)
10 January 2021, 23:39

Building a Lego ev3 Robot from Base Kit for FIRST LEGO League (FLL) ↗



From [youtu.be - 26 April 2017, 15:56](https://youtu.be/26April2017,15:56) ↗

" In this video we learn how to build a lego EV3 Robot!!
The robot has a lot of cool features to assist in FIRST LEGO League including:
The Universal Attachment Mounting System
Compact Design
Dual Bumpers
and more!

Wheel Part Number: 2903

Tire Part Number: 2902

Check out the Mod's Video for this robot!!! <https://www.youtube.com/watch?v=xxBVJ5H7OjY>

Made with iPhone. "

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