



LEGO MINDSTORMS

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LEGO MINDSTORMS

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17 December 2022, 12:33

LEGO 45544 DIY Differential Type 1

From [youtu.be](#) - 6 December 2022, 10:17

"LEGO 45544 DIY Differential"

Scooped by [robotix](#)
16 December 2022, 17:43Small scale front axle suspension
with custom parts build From [youtu.be](#) - 19 March 2021, 19:47

"This is the second iteration of front axle with suspension using 3d printed parts. I have designed my own gear rack to simplify construction. There is an old original piece with similar functionality, but it's hard to get and also is mounted on top of a brick and not liftarm.

You can find the source files from Solidworks and STL files for printing



Scooped by [robotix](#)
13 December 2022, 18:23

Compact flat subtractor / Double Differential - tank steering build [↗](#)



From [youtu.be](#) - 23 March 2021, 21:10 [↗](#)

" This is a type of steering for a tracked vehicle that uses so-called subtractor which means input from motor used for steering is subtracted from the main drive input. If you want to learn more about this, check out Sarel's video here: https://www.youtube.com/watch?v=f5_OQooBxdY

Music: Peaceful Mind by Astron from Youtube Audio Library

Timestamps:

00:00 Build at 2x speed
03:20 Manual showcase
04:47 Powered showcase
06:05 Drive showcase"

here:

<https://www.thingiverse.com/thing:4800409>

Note that I'm capturing this with phone right between my hands and my eyes, as this is one of my first captured builds in awhile, so it got a bit cumbersome when trying to fit the rubber band into the pin hole in the middle of the build."



Scooped by [robotix](#)
13 December 2022, 18:21

Simplest automatic LEGO transmission in the world? Really functional. Principle explained. [↗](#)



From [youtu.be](#) - 1 June 2021, 22:53 [↗](#)

" The video shows probably the simplest automatic transmission built from LEGO bricks. It is two speed transmission and uses a friction clutch. Shifting is smooth and the transmission is also used in the LEGO car, as shown in the video. It is therefore really applicable. A GoPro camera mounted directly on the car was also used for recording to see the change of gears while driving in slow motion video. I designed this type of transmission by myself and I have never seen any such simple solution. If any of you know or have seen a similar transmission please let me know. Extra simple LEGO gadgets are my



Scooped by [robotix](#)
13 December 2022, 17:09

LEGO Technic 5 Speed CVT Gearbox (With Building Instructions) [↗](#)



From [youtu.be](#) - 3 November 2020, 07:29 [↗](#)

“LEGO Technic 5 Speed CVT Gearbox (With Building Instructions)
Please like the video and subscribe to support the channel.

#legotechnic
#legotechnic2022
#racingbrick”



Scooped by [robotix](#)
9 December 2022, 22:39

LEGO Technic M-Motor Steering Mechanism - Without Servo Motor (Building Instructions) [↗](#)

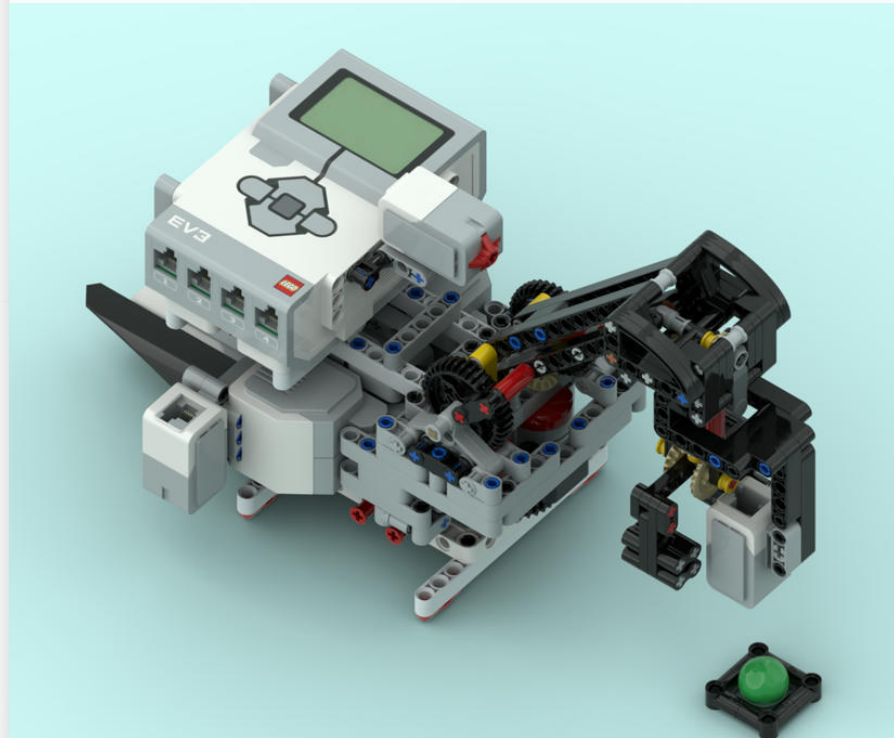


hobby. I hope you enjoy the video.”



Scooped by [robotix](#)
11 December 2022, 18:18

LEGO MOC EV3 robotic arm by Artem 16 | Rebrickable - Build with LEGO [↗](#)

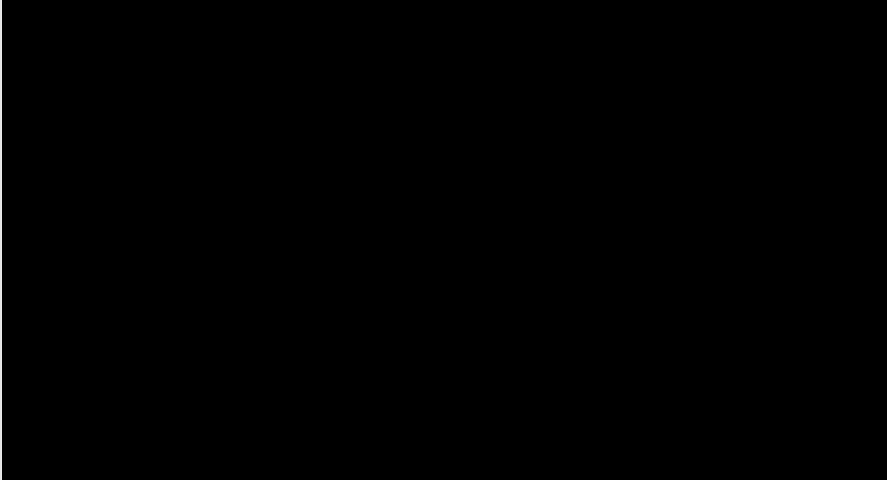


From [rebrickable.com](#) - 11 December 2022, 18:18 [↗](#)

“A robot arm made with LEGO Mindstorms EV3 based on Will Heredia's Mini Alpha <”



Scooped by [robotix](#)
5 December 2022, 09:38



From youtu.be - 16 April 2019, 02:07 [↗](#)

" LEGO Technic M-Motor Steering Mechanism - Without Servo Motor
(Building Instructions)
@LEGO

LEGO Technic Instructions Guide:

[https://play.google.com/store/apps/details?
id=com.roxutech.technic.guide](https://play.google.com/store/apps/details?id=com.roxutech.technic.guide)

This is the best solution if you don't have a servo motor, the Mechanism
is also protected by a clutch gear to prevent damaging the motor when
reaching the limits.

not recommended to use without a clutch gear, if you don't have one
you can replace it with a regular gear but use with care and at your own
risk!

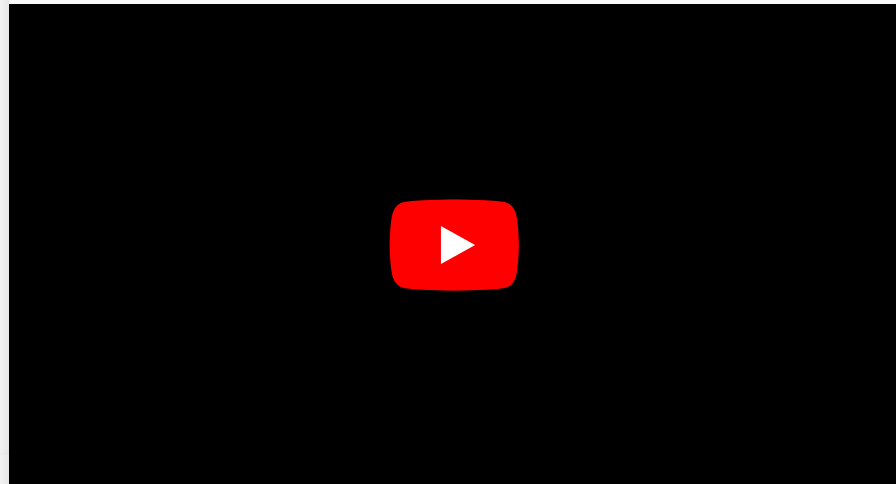
Also don't miss this amazing playlist for the best LEGO Technic
Tutorials and Tips:

[https://www.youtube.com/playlist?
list=PLBSaoOQ0M3_eVbljNXApp1U3H2Nw6s51x](https://www.youtube.com/playlist?list=PLBSaoOQ0M3_eVbljNXApp1U3H2Nw6s51x)

Thank you all, don't forget to subscribe

#legotechnic
#racingbrick
#brickbuilder "

LEGO Technic Compact 4 Speed Gearbox (Building Guide) [↗](#)



From youtu.be - 24 March 2019, 14:07 [↗](#)

" LEGO Technic Compact 4 Speed Gearbox (Building Guide)

Note: This is not my original idea, it's a modified version of a 4 speed
gearbox by lego technic mastery channel on youtube

Thank you for watching
please subscribe, don't miss any new video

racingbrick
racingbrick lego
racingbrick lego technic
racingbrick lego review

#legotechnic
#racingbrick"



Scooped by [robotix](#)
1 December 2022, 22:17

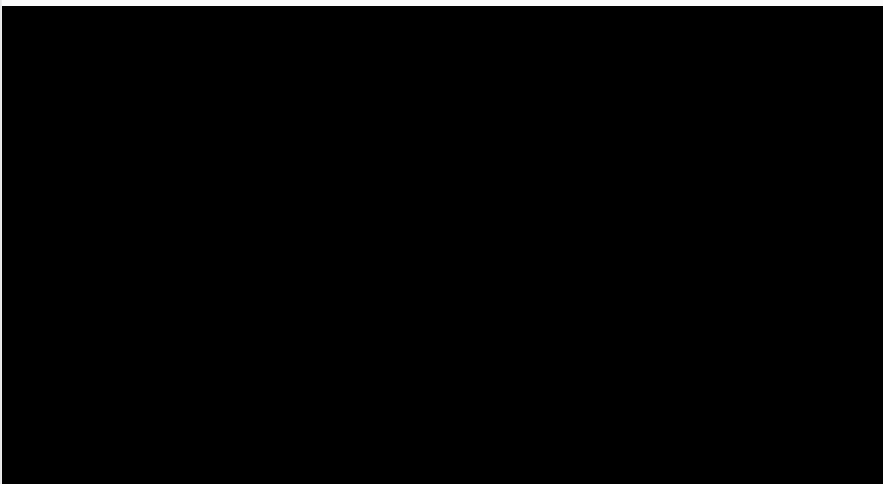
EV3 Egg Decorator I JK Brickworks





Scooped by [robotix](#)
1 December 2022, 22:39

Can You Make a Better EV3 Line Follower Than Builderdude35? [↗](#)



From [youtu.be](#) - 27 August 2021, 18:00 [↗](#)

"Builderdude35 is hosting a virtual EV3 line following competition using the Virtual Robotics Toolkit and Robot Virtual Games! The Builderdude Nation can compete for bragging rights as the program a robot line follower to get the fastest time through the course. The competition is hosted virtually on the VRT and RVG by Cogmation Robotics.

Download the Virtual Robotics Toolkit: https://www.virtualroboticstoolkit.com/download_links

Purchase a license for the VRT: <https://www.virtualroboticstoolkit.com/referrals/Builderdude35comp>

Read the competition rules: <https://builderdude35.com/download/rules-for-builderdude35s-line-following-challenge>

Full instructions for signing into Robot Virtual Games: <https://www.virtualroboticstoolkit.com/referrals/Builderdude35comp>



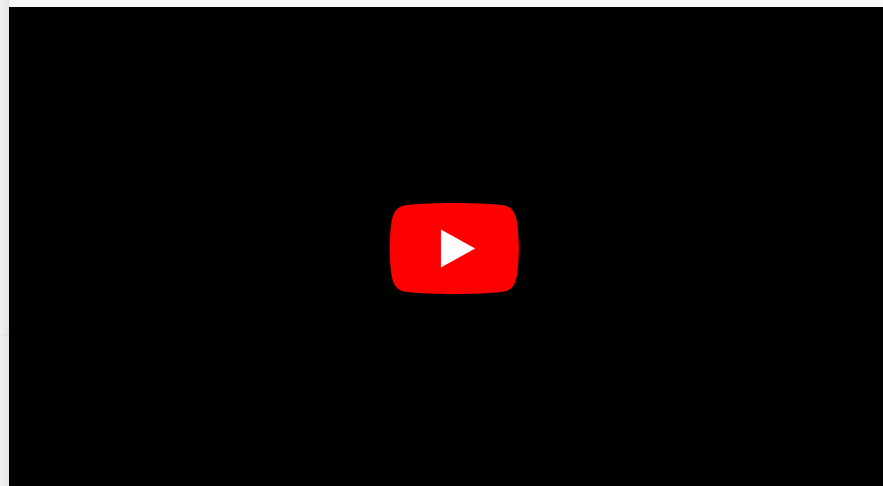
From [jkbrickworks.com](#) - 11 March 2016, 19:43 [↗](#)

"With Easter just around the corner I thought it would be a great time to dust off my EV3 and build an egg decorating robot. These machines, commonly referred to as Egg Bots, have been around for a while."



Scooped by [robotix](#)
30 November 2022, 10:37

Машина с рулевым управлением и пультом Lego mindstorms EV3. Сборка и программа [↗](#)



From [youtu.be](#) - 22 April 2021, 18:07 [↗](#)

"Таймкод:

00:01 - детали для сборки

00:40 - сборка машины

00:13 , 09:02 - машинка ездит на управлении с пульта

09:26 - программа"



robotix's insight:

auto con volante EV3 - Montaggio e programma

View the RVG homepage: <https://www.robotvirtualgames.com/>

Builderdude35's Line Following Challenge on RVG: <https://www.robotvirtualgames.com/competitions/744/builderdude35-s-line-following-challenge/>

🔴 Watch my LEGO MINDSTORMS 51515 Review: https://youtu.be/9_8pbextcKI

🤖 See all of my LEGO 51515 Tutorials here: <https://youtube.com/playlist?list=PLqTmtNjaVpoua1ViQWdLAGgnFlyOpZyYW>

CONTENTS

0:00 - Introduction

📖 Check out my book, "Building Smart LEGO MINDSTORMS EV3 Robots," available on Amazon: <https://amzn.to/2MyGVCI>

🔴 Subscribe to Builderdude35: https://www.youtube.com/builderdude35?sub_confirmation=1

🏠 My Website: <http://builderdude35.com/>

📷 Follow me on Instagram: <https://www.instagram.com/builderdude35>

👤 My supporters on Patreon contribute additional funding that allow me to build up and improve this channel and to make more videos. If you would like to help, you can support me here: <https://www.patreon.com/builderdude35>

🎵 Thank you to my friend OTT for producing the beats and music used in this video. You can check him out on Instagram here: <https://www.instagram.com/onetaketom/>

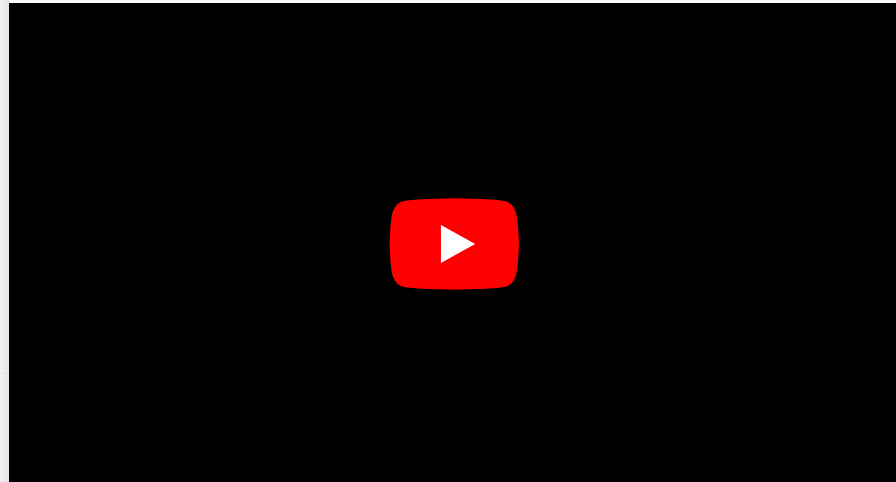
📺 Thank you to Garry Law from Creator Academy Australia for designing the intro animation and end screen animation! You can check out his YouTube channel here: https://www.youtube.com/channel/UC_EJBSPUTFORXV6gbQFdRgA

👤 Thank you to my friend Preston Nichols for designing



Scooped by [robotix](#)
30 November 2022, 10:16

EV3 Motorcycle [↗](#)



From [youtu.be](#) - 27 August 2017, 19:25 [↗](#)

"Инструкция по сборке и программа:

<https://drive.google.com/file/d/1XMmAVgmCCswUcyDV1az8uYqZwYRMr0BJ>

Для правильной работы требуется при включении держать в покое блок EV3, чтобы исключить дрейф гироскопа.

Использованы 45544, 45560, 8051 наборы Lego.

Еще один мотоцикл

https://youtu.be/iHxcVSGr_Oc



Scooped by [robotix](#)
30 November 2022, 10:08

EV3 robotic arm [↗](#)

Builderdude35's logo!

#builderdude35 #lego51515 #legomindstorms51515"



Scooped by [robotix](#)
30 November 2022, 21:27

EV3 робот для начинающих. Как сделать робота из лего. Lego тележка за 3 минуты / автономный робот ↗



From [youtu.be](#) - 11 December 2018, 09:57 ↗

" ☆ EV3 робот для начинающих. Как сделать робота лего. Lego тележка за 3 минуты. Робототехника Lego для начинающих.

★ https://www.instagram.com/german_boronin
★ <http://legoteacher.ru>

☆Как собрать простейшего робота за 3 минуты из образовательного набора Lego EV3. Самоделки из лего. Автономный робот. Установить сенсор на робота.

#legoteacher #роботзатриминути #робототехникадляначинающих
#робототехника #робототехникалего #LegoEV3



From [youtu.be](#) - 19 April 2020, 15:45 ↗

" A robot arm made with LEGO Mindstorms EV3 based on Will Heredia's Mini Alpha (<https://youtu.be/5SawwDxAPN8>) Instruction: <https://rebrickable.com/mocs/MOC-40208/Artem%2016/ev3-robotic-arm/#bi>"



Scooped by [robotix](#)
30 November 2022, 09:54

Инструкция по сборке автономного автомобиля из Lego mindstorms ↗



#LegoMindstormsEV3 #robotics

☆ Как собирать Lego роботов. Как программировать Lego роботов. Как работать с набором Lego Mindstorms EV3 и как программировать Lego роботов в среде программирования LabWIEV.

⇒ Канал о робототехнике #LegoTeacher.

⇒ <https://youtu.be/9uv7LrzJRQM>

⇒ <https://www.youtube.com/c/LegoTeacher> Профессия Python-разработчик с 0 до PRO

<https://196g.ru/10>”



robotix's insight:

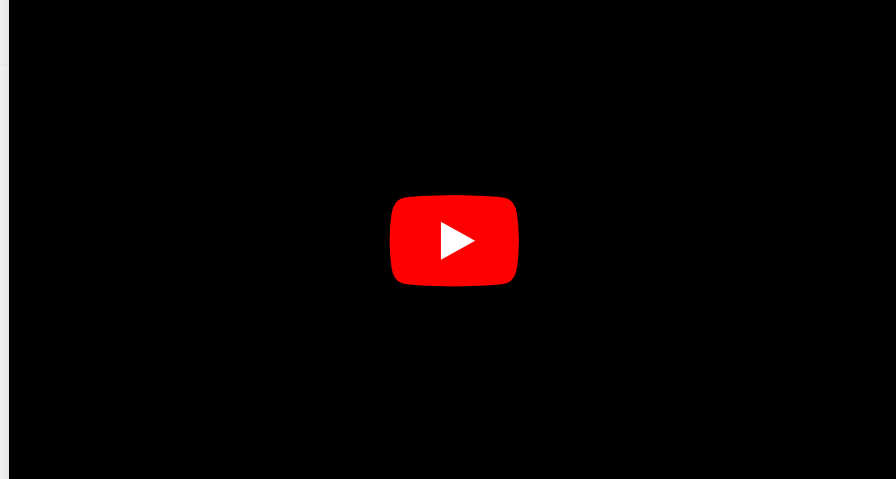
Come costruire un robot lego in 3 minuti



Scooped by [robotix](#)

30 November 2022, 10:35

Проекты Lego Mindstorms ev3



From [youtu.be](https://youtu.be/9uv7LrzJRQM) - 10 October 2017, 19:04 

“ Инструкция по сборке:

[https://drive.google.com/open?](https://drive.google.com/open?id=0By25eYYOeqZbZVRwVHA1NW5OdU0)

[id=0By25eYYOeqZbZVRwVHA1NW5OdU0](https://drive.google.com/open?id=0By25eYYOeqZbZVRwVHA1NW5OdU0)

Для просмотра инструкции нужно установить

LEGO Digital Designer v4.3 (<http://ldd.lego.com>)”



Scooped by [robotix](#)

30 November 2022, 09:40

Как собрать простого двухногого робота из Lego Mindstorms EV3 [45544]+[45560]



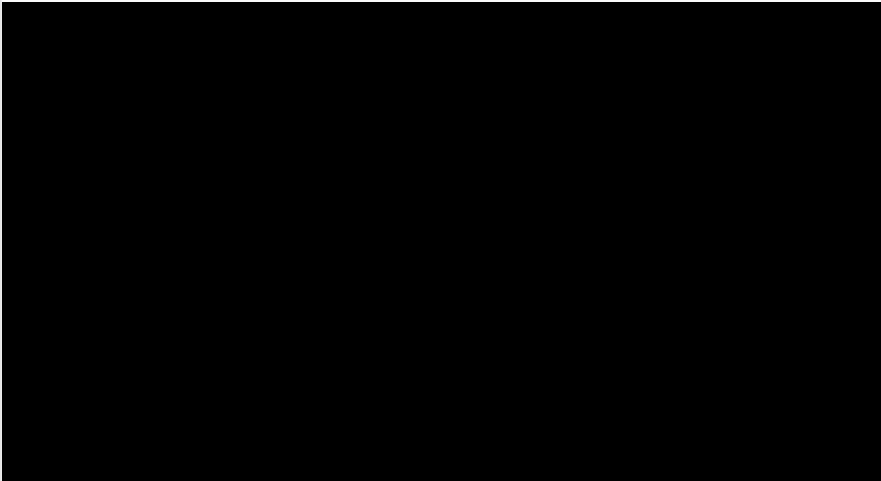
From [scienceprojects.lv](#) - 30 November 2022, 10:35 [↗](#)

“ Сайт, посвящённый роботоам Lego Mindstorms ev3”



Scooped by [robotix](#)
30 November 2022, 10:12

EV3 Motorbike (PID Controller) [↗](#)



From [youtu.be](#) - 28 March 2020, 09:14 [↗](#)

“ Design borrowed and improved from

<https://youtu.be/2YtpPu-Sl5M>

Instruction & programm:

[https://drive.google.com/file/](https://drive.google.com/file/d/1ZsdAt0mgjpLI90NCXg1RG_n2nF2DMi9_)

[d/1ZsdAt0mgjpLI90NCXg1RG_n2nF2DMi9_](https://drive.google.com/file/d/1ZsdAt0mgjpLI90NCXg1RG_n2nF2DMi9_)

<https://rebrickable.com/mocs/MOC-38438/Artem%2016/ev3-motorbike-pid-controller>

It is very important to place the motorcycle strictly upright at the starting point. This can be achieved by holding the motorcycle with your hand until it falls into one of the sides. Then you need to gently slip a support under it.

Change the values of the coefficients:

Proportional - RPR,

Integral - INT,

Derivative - DIF,



From [youtu.be](#) - 29 January 2017, 11:08 [↗](#)

“ Инструкция по сборке:

[https://drive.google.com/open?](https://drive.google.com/open?id=0By25eYYOeqZbNjJHbVk4RU9vWVE)

[id=0By25eYYOeqZbNjJHbVk4RU9vWVE”](https://drive.google.com/open?id=0By25eYYOeqZbNjJHbVk4RU9vWVE)



robotix's insight:
semplce robot bipede con Lego Mindstorms EV3
[45544]+[45560]



Scooped by [robotix](#)
30 November 2022, 09:35

Как собрать EV3 CATHcer из Lego Mindstors [45544]+[45560]



it is possible to achieve better results.
Corrected the program file, now you can see in what places to change the coefficients:

https://drive.google.com/open?id=1s_9hef4bxguqjl-WQclQYdqoOoWKDcsf

Additional Information:

<http://ev3lessons.com/en/ProgrammingLessons/advanced/GyroDrift.pdf>

<http://ev3lessons.com/ru/ProgrammingLessons/advanced/GyroRevisited.pdf>

<http://ev3lessons.com/en/ProgrammingLessons/advanced/PID.pdf>



Scooped by [robotix](#)
30 November 2022, 10:05

Mini Alpha: A robot arm made with LEGO Mindstorms EV3



From youtu.be - 15 November 2019, 01:42 

“ In this model, all three motors are concentrated in the base, and the movement is transmitted mechanically to the joints. This allows the superstructure to be light, fast and quite compact.

Despite having only two degrees of freedom, it has a great motion range that allows it to move lego balls quite efficiently.



From youtu.be - 16 April 2017, 20:55 

“ Инструкция по сборке:

<https://drive.google.com/open?id=0By25eYYOeqZbZ1pHQWtNM29RcUk>

Использовал LEGO Digital Designer v4.3 (<http://ldd.lego.com/nl-nl/download>) для создания 3D модели и инструкции.

Использовал Blender v. 005 (<http://www.eurobricks.com/forum/index.php?showtopic=109972>) и Avidemux 2.6 для создания данного видео.”



robotix's insight:
EV3 CATHcer con Lego Mindstors [45544]+[45560]



Scooped by [robotix](#)
30 November 2022, 09:31

EV3 T-Rex [45544]+[45560]



More pictures here: <https://imgur.com/gallery/dfohNIG>
Instructions: <https://app.box.com/s/a44kcqdebjkry768elm62x9fuev1e51l>
Programming: <https://app.box.com/s/ik0ioymwzpm6zq5t6ic892i306quuupz>



Scooped by [robotix](#)
30 November 2022, 09:45

Как собрать самоуправляемую машину из **Lego Mindstorms EV3 [45544]+[45560]**



From [youtu.be](#) - 24 January 2017, 14:43 

“ Для сборки были использованы наборы LEGO Education 45544 и 45560

Инструкцию и программу можно забрать по ссылке:

<https://drive.google.com/open?id=0By25eYYOeqZbWU04c0dyaUdnZms>

Видео сделано в Avidemux 2.6,

Кадры для видео сделаны в Blender

Полная инструкция сделана в Blueprint

<https://drive.google.com/open?id=0By25eYYOeqZbcWw4Rno0ZVc0SEE>

<https://drive.google.com/open?id=0By25eYYOeqZbcWw4Rno0ZVc0SEE>



From [youtu.be](#) - 6 July 2017, 12:16 

“ Балансирующий робот на основе программы Gyro Boy из набора Lego Education.

Инструкция по сборе и программа: <https://drive.google.com/open?id=0By25eYYOeqZbNFdqV2VQdWd4U2c>”



robotix's insight:

Un robot in equilibrio basato sul programma Gyro Boy del set Lego Education.



Scooped by [robotix](#)
30 November 2022, 09:37

Как построить **EV3Dozer** **[45544]+[45560]**



From [youtu.be](#) - 29 March 2017, 18:33 

“ Инструкция по сборке:

<https://drive.google.com/open?id=0By25eYYOeqZbZ2w2Nm1nZ1hMN00>

Использовал LEGO Digital Designer v4.3 (<http://ldd.lego.com/nl-nl/download>) для создания 3D модели и инструкции.

Использовал Blender v. 005 (<http://www.eurobricks.com/forum/index.php?showtopic=109972>) и Avidemux 2.6 для создания данного видео.”



robotix's insight:
Ruspa EV3



Scooped by [robotix](#)
30 November 2022, 09:32

Инструкция по сборке HEXAPOD



From youtu.be - 31 July 2017, 20:20 

“ <https://drive.google.com/open?id=0By25eYYOeqZbSm9ZeDR3UVdvb1E>”



robotix's insight:
Robot esapode



Scooped by [robotix](#)
30 November 2022, 09:23

Instruction Xiaomi Smart BLOCK Highway Racing





From [youtu.be](#) - 3 January 2021, 08:33 [🔗](#)

" Specially for Dr. Nitrite and Milijonas Milijardas.
Screen recording Building blocks world (积木世界)
<http://app.mi.com/details?id=com.aiqi.blockworld>

Remote control application MiTuBuilder:

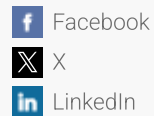
1. <http://app.mi.com/details?id=com.iqi.MiTuBuilder>
2. https://drive.google.com/file/d/18CVlbgRt_1ajSJUWesPf3BHyQMThdGmT/view?usp=sharing
Xiaomi account authorization required."



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