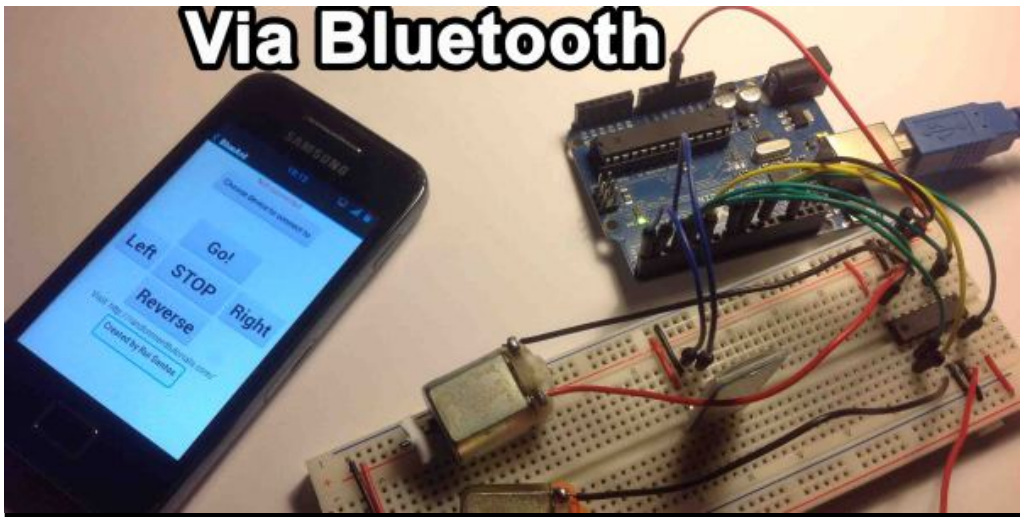
Rui Santos 225 Comments



Arduino – Control 2 DC Motors Via Bluetooth (Perfect To Build a Robot)

UPDATE 23-12-2013: http://appinventor.mit.edu changed their whole website… So the source file that previously you could use to edit on their website, only works with AppInventor version 1.0 or also called classic that you can see here http://appinventor.mit.edu/explore/classic.html Click the button: "Invent your own Apps now" . This project still works just fine with my app and with my Arduino code. But you can only edit the source code on Appinventor classic version. I'll try to update the source code in the next 4 weeks or something. I'm currently working on another projects that I need to finish right away.

In this tutorial I'll show you how you can control 2 DC motors via bluetooth with my brand new Android app.

It's called "**BlueArd**" and It's the 1.0 version. I want to upgrade my app later and add more features.

This app was created with MIT App Inventor. It's a great place to start with android development.

If you remember my previous tutorial (Click here to

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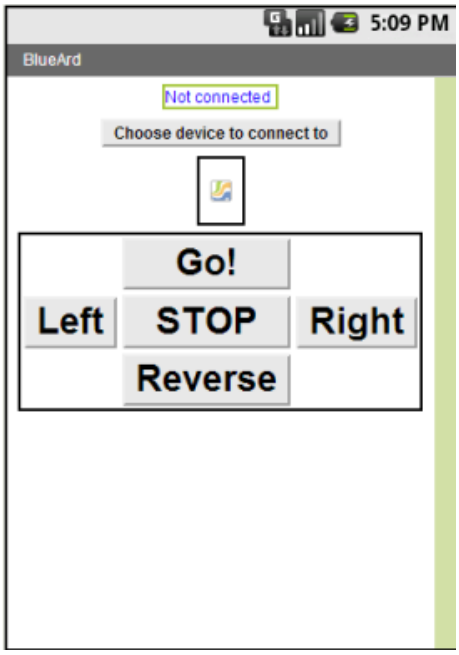
see that project) where I was controlling 1 DC motor, I was using an app called "**BlueTerm**". That app did the job but I didn't like the design that much. So I've decided to make my own.

It's my very first app and It's working for me but I'm not sure if this will work for everyone.

If you want to make some improvements to my app, feel free to do that. But please contact me here! I'll be glad to hear what you changed in my app.

Let's take a look to "**BlueArd**":



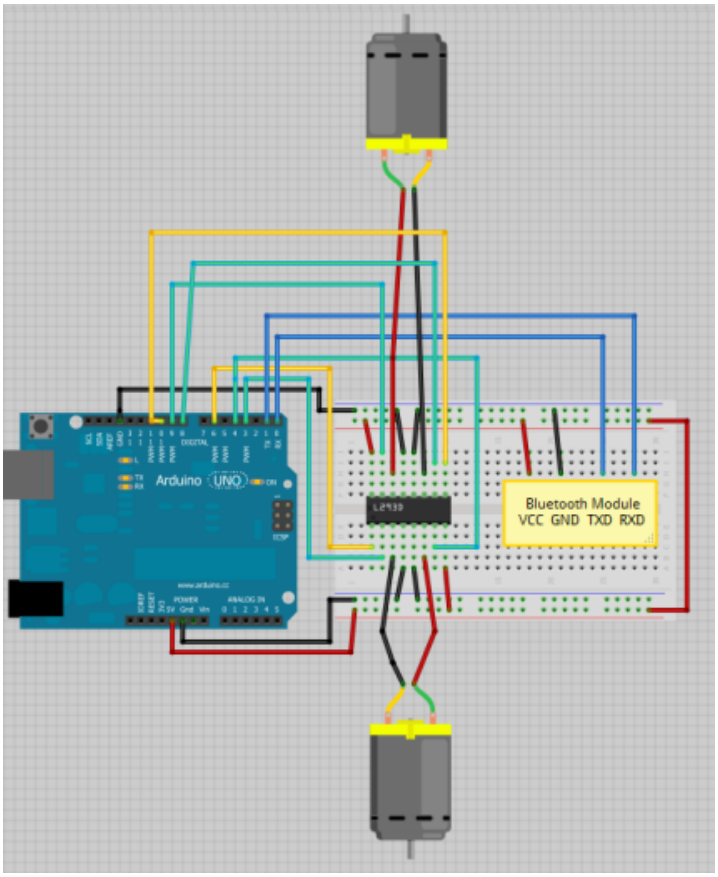
This app is perfect to control anything via bluetooth. You can edit this app for your needs. (you have the source code below… just click share to unlock the source code). But my idea is to create a robot later that will be controlled via bluetooth through this app.

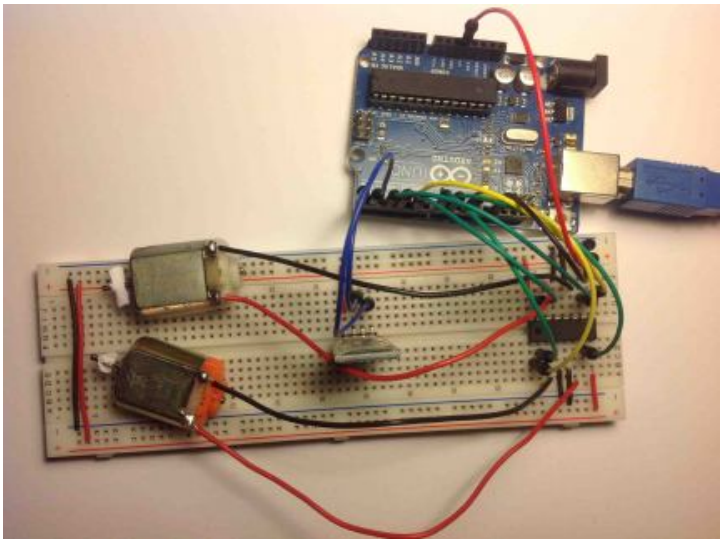
Parts Required:

- 1x Arduino Uno
- 1x Bluetooth Module (for example: HC-05)
- 1x Smartphone (any Android will work, I've only tested with Samsung Galaxy Ace)
- BlueArd Application (you can download it below)
- 1x L293D IC
- x DC motor

- 1x Breadboard
- Jumper Cables

Schematics:





Watch this video tutorial with a demo below:

Download all my source codes below:

(Just click the buttons below to unlock all my source code for free)

This content is locked!
Please support my work, use one of the buttons below to unlock the content.

tweet | like us | +1 us

Notes and Tips:

- You need to remove the RX and TX cables when you're uploading the sketch to your Arduino.
- Sometimes people connect the TX from the bluetooth module to the TX of the Arduino… that's wrong and it won't work. Make sure you connect it properly, the TX into RX and the RX into the TX.
- If the HC-05 Bluetooth Module asks for a password, It's '1234′.
- Before Testing my "**BlueArd**" app, test if you've made all the connections correctly. How you can do that? Simply enter numbers ('1′, '2′, '3′, '4′ and '5′) into your serial

monitor and your DC motors should be working properly…

Thanks so much for watching to my tutorials, I hope you found this useful. If this helped you please leave a comment below!

Do you know a friend who would like to see this project? Make sure you share this project with your friend!

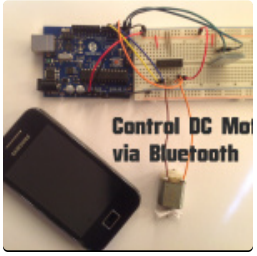
P.S. You don't have a Bluetooth Module yet? Read my review here about the one I'm using in this tutorial!

P.P.S. Thanks to Kerimil from arduino forum for helping me out debugging this app! (read here)

Read Next...

Android App that Sends a Message to Your Arduino

How To Use App Inventor With Arduino



Arduino – Control DC Motor via Bluetooth

225 Comments

Comments Trackbacks

Ungku Muhammad Nazmi *September 25, 2013* Reply

Nice !

Rui *September 26, 2013* Reply

Thanks for your feedback!

Almc Canuel *September 26, 2013* Reply

i already did it for my sumobot project… but i get the idea from your previous video that

control one dc motor.. and i'm really thankful to to this site… may i ask you if the android app that you use in this video is your own code..?

Rui *September 26, 2013* Reply

Thanks for trying my projects!
Yes this Android app was created by me using MIT App Inventor.
your can download all my source code for free. (just click share and a download link will unlock)
(I know we already talked through facebook, but I want to reply also through my blog! :))

Wagner Oedis *September 27, 2013* Reply

Wow, thanks for sharing

Hugs from Brazil

Wagner Oedis

Rui *September 28, 2013* Reply

Thanks so much for your feedback Wagner!
I'm glad you enjoyed it!

Hugs from Portugal!

Obrigado!

Henry Cedeño *September 30, 2013* Reply

Hi my friend!

I had a problem in this proyect… when a charge the code, in the botton it says "avrdude: stk500_getsync(): not in sync: resp=0×00″

And one motor star to move without pressing "1″ or "2″, etc…
What could probably be?

Rui *September 30, 2013* Reply

Hey Henry! Thanks for stopping by and try my project!

Just two quick questions.
Are you using the exact same parts as me? (and you followed my exact schematics?)
which version of the Arduino IDE you're using?

The DC motors should only be moving after you pressed some buttons.

(before even connecting your Bluetooth module)
First try to control the DC motors with the serial monitor by sending '1′, '2′, etc .
And they should be working just fine.

Please let me know if it's working!

Imam Moeslim *October 9, 2013* Reply

hi rui… i want try this tutorial. but do u have full source code app in android ? and what apps to use that's apps? ECLIPSE ? or ANDROID STUIDO ? .

thank's

Rui *October 11, 2013* Reply

Hi Iman! thanks for leaving a comment!
I don't have the Java code… I recommend you to read this tutorial that I've just released and you'll understand how you can create your own apps for android… without using Java! Let me know if this answered your question.
http://randomnerdtutorials.com/how-to-use-app-inventor-with-arduino/

Imam Moeslim *October 13, 2013* Reply

okay rui im understand.

my question . why u dont use motor shield ?
i think for use motor dc we must use motor shield

Rui *October 13, 2013* Reply

yes you can definitely use one if you have one!
the L293D it's used by most of the motor shields…
So if you have a motor shield go for it.

m-almajed *October 11, 2013* Reply

hello rui

can i use a L298 Dual H-Bridge IC instead of L293D IC to control 12V DC motores

Rui *October 11, 2013* Reply

Hi! Thanks for taking the time to leave a comment!
Yes you can definitely do that!
I recommend you to use the IC because it's easier and It looks more "clean"
But if you prefer to use a Dual H-Bridge it will work exactly the same!

Let me know if this helped you.
Good luck with your project,
Rui Santos

m-almajed *October 13, 2013* Reply

Thanks for the fast reply friend

Another question. Did you use any voltage divider for the output to the Bluetooth module?
Do I have to use a voltage divider?

Rui *October 13, 2013* Reply

I'm not using the voltage divider but you can use one…
Some people prefer to do that way!

m-almajed *October 14, 2013*

So you are not using a divider. I think I will do just like you.

I will let you know soon
Thanks

Nattawat Boontin *October 13, 2013* Reply

hi rui

can i use Bluetooth Serial Module (HC-05 Master/Slave mode) in this project ? becuse i'm not sure this module have 6 pin.

thank you so much :'D

Rui *October 13, 2013* Reply

Hi Nattawt!
Thanks for stopping by!
I'm using the HC-05 and my Bluetooth module only has 4 pins!

Which one are you talking about?
Send me a link please and I'll take a look!

Nattawat Boontin *October 14, 2013* Reply

here it is.
http://www.arduitronics.com/product/55/bluetooth-serial-module-hc-05-master-slave-mode

Thank you for your kindness

Nattawat Boontin *October 14, 2013* Reply

here it is.

http://www.arduitronics.com/product/55/bluetooth-serial-module-hc-05-master-slave-mode

Thank you for your kindness.

Rui *October 15, 2013* Reply

I think It will work with that bluetooth module… but please do a bit of research first… I'm not completely sure.

ayush *April 19, 2014* Reply

How can i convert a zip file to get load on my anroid phone….

Rui Santos *April 25, 2014* Reply

First Unzip that file and then inside it's a .apk file.
That's the file that you're going to install into your smartphone

Thanks for trying my project!

m-almajed *October 15, 2013* Reply

Hi Rui

just to let you know. Ive Powered my HC-07 Module with 3.3v and without using voltage divider for the output of the arduino. it worked well for 5 min only. then the HC-07 STOP working. i think the my bluetooth module has burnt or damaged permanently :(.

im thinking to use Order LC-05 to try it. What do you think

http://www.aliexpress.com/item/LC-05-bluetooth-serial-interface-module-wireless-serial-interface-module-through-the-wireless-module-free-shipping/638543403.html

Rui *October 15, 2013* Reply

That's really weird … Never happened to me… the voltage divider is supposed to stable the connection.. but I thought It wasn't necessary, because It always worked well for me.

I'm sorry :S

Did you tried again after that? It's still not working?

the small LED's don't blink?

I'm using the HC-05 (something similar to this: http://www.ebay.com/itm/Arduino-Wireless-Serial-4-Pin-Bluetooth-Transceiver-Module-RS232-Backplane-/131017379824?pt=LH_DefaultDomain_0&hash=item1e813e8ff0)

David Macias *November 5, 2013* Reply

HI Rui
I've got a question, does your arduino code just works with the hc-05 bluetooth module or I can use another one like the hc-06 ,this one has 4 pins?

Thanks a lot for the tutorial

Rui *November 11, 2013* Reply

Hi David,
thanks for taking the time to watch my tutorials.
I think by default it will work.
They are exactly the same. but the HC-05 has some pins, and the HC-06 you need to solder wires.
But they work the same.
Good luck with your project,
Rui Santos

John *November 15, 2013* Reply

Hi Rui,

Awesome tutorial!

I'm having some problems finding that IC. Is it possible to use this
http://www.amazon.com/gp/product/B00E58EA90/ref=s9_simh_gw_p263_d0_i4?pf_rd_m=ATVPDKIKX0DER&pf_rd_s=center-2&pf_rd_r=1N7HNHTXN219C4CQ3Q8R&pf_rd_t=101&pf_rd_p=1630083462&pf_rd_i=507846
If so, how would I wire that in? Thanks!

Rui *November 16, 2013* Reply

Hi John.
Thanks for your feedback!
you can find that IC in almost any electronics store.
I would prefer to buy this shield below.
This has 2 IC's (L293D) you can either use it with your Arduino. there are some libraries to work with this shield.
Or simply remove the IC and use in your project!

Arduino DC Motor Shield:
http://amzn.to/1bBdhoO

5 IC's – L293D
http://amzn.to/1bBdaJP

Good Luck with your Projects,
Rui Santos

ignacio *November 17, 2013* Reply

hola soy de chile y me encanto tu tutorial el problema es que no me deja bajar la aplicación desde mi teléfono… como lo puedo instalar?

Rui Santos *November 17, 2013* Reply

Hi,
I don't speak Spanish. but I know Portuguese. So I understood what you said.
My app is available to download here: http://randomnerdtutorials.com/download
Simply enter your email and you'll receive a secret download page with all my projects.

Or you can simply click the like button and the code will unlock.

thanks for stopping by!

Andi *November 18, 2013* Reply

Hai Rui
I wanna ask you something about the bluetooth, if i use LC-05 Bluetooth Serial Module Master (Slave Integrated) it can work too? Because in my place is pretty hard to find HC-05
Here's the picture:
http://indo-ware.com/produk-2391-lc05-bluetooth-serial-module-masterslave-integrated.html

And when the programming begins? Before we set all components to PCB or after?

Thanks !

Rui Santos *November 19, 2013* Reply

Hi Andi.
For what I've heard that LC-05 Bluetooth module works with my project.
I've not tried it myself but it should work.
the password and bluetooth configurations might be different.

The programming is done in the Arduino.

you don't need to programm the Arduino Module.

Thanks for taking the time to read my projects!

Mark *November 19, 2013* Reply

hi. will this also work if we are going to use the accelerometer sensor of the smartphone?
.

Rui Santos *November 19, 2013* Reply

Hi Mark,
This project and idea can be used with the accelerometer of the smartphone.
But in order to do that you will need to create a new app for your smartphone.
the one I'm using on this tutorial was created with MIT app inventor.
I've also made a tutorial using that platform:
http://randomnerdtutorials.com/how-to-use-app-inventor-with-arduino/

Andi *November 20, 2013* Reply

Hi Rui

I wanna ask you something more about the password, when i pair the bluetooth modul they ask about pass but stil not work to connected. The bluetooth module dont ask about the pass. What i must to do?

Thanks

Rui Santos *November 21, 2013* Reply

Hi Andi.
First go to your bluetooth settings and pair your smartphone with the Bluetooth module.
(Use the password '1234' or '0000'.)
As soon as it's paired. Go to the ArdBlue app and click: "Choose device to connect to" and choose your bluetooth module.

I hope this solves your questions.
Rui Santos

Peter *November 22, 2013* Reply

Hi RuiSantos,

I have got a problem when I tried to set up the hardware of what you introduced above; however, I found out that there were signals of int1 and int4 were locked to turn on the LED light and one of motors was continuously running forward only (another one was stopped) when I used generic motors to connect L298 development board module, which was connected to Arduino Uno development board. I could not control pinint1 to pinint4 by using your Skretch programme.

I tried not to supply power to motor and only run your sktech program to send signal to control pinint1 to pinint4 of L298, it was successful for me to see the response of the MCU controling normal.

Could you tell me what wrong with my hardware setting? Does noise come from the

motor since the ground is commonly connected between L298 and Arduino Uno?
How can I solve this problem please?

Best regards,

Peter

Rui Santos *November 23, 2013* Reply

Can you tell me exactly which motor board are you using?
(Send me a link with the information)

You're debugging all your code using the Arduino IDE? right?

which DC motors are you using?

Peter *November 27, 2013* Reply

Hi Rui,

I fixed the problem already since being careless of matching pins between Atmega328 and L293D. I am using motor drive of L293D of Sparkle Brand to connect Arduino Uno. Thank you for your reply.

Rui Santos *November 28, 2013* Reply

Hi Peter.
I'm really glad you got it working!

Have a nice day,
Rui

Peter *November 22, 2013* Reply

Hi Rui,

I am urgent to know your opinion for the problem solving since this will become reference for my college project please. Thanks you very much.

Peter

Peter *November 22, 2013* Reply

Hi Rui,

I am urgent to need knowing your opinion since I will take your tutorial case as a example for my owned project. Could you reply me as soon as possible please?

Thanks,

Peter

Rui Santos *November 23, 2013* Reply

Hi Peter,
Thanks for contacting me.
You can use all my code and all the resources provided on this website under those terms:
http://randomnerdtutorials.com/terms

So feel free to edit and share my code.
Please contact me here telling where and how you've used my code. I always love to hear that.:
http://randomnerdtutorials.com/contact

Thanks again,
Rui Santos

P.S. Don't forget to show me your project

Peter *November 27, 2013* Reply

Hi Rui,

of course, I just reference your codes for evaulation only and then I will write my owned code with adding other function, such as LED controlled by Andriod for the car, etc.

Peter *December 20, 2013* Reply

Hi Rui,

Many thanks for your info and help. If I completed my project, I will show you later.

Daniel *December 9, 2013* Reply

Olá Rui,

É possível fazer uma aplicação parecida para controlar step motors?

Abraço

Rui Santos *December 10, 2013* Reply

Boas Daniel,

Sim a ideia por de trás do programa é o mesmo,
só tens que mudar o código do Arduino e em vez de controlares um DC motor é um stepper motor.
Tenta procurar um exemplo de Arduino com stepper motors para teres mais umas ideias!

Abraço,
Rui

Andi *December 12, 2013* Reply

Hai Rui,

i have a problem with this arduino. My dc motor can run if i connect with my laptop (usb) but with 9v battery cannot run. Blueterm not response if i enter numbers with 9v battery, but with usb, the blueterm is completely response and my dc motor run (left, right, off). Why?

Rui Santos *December 12, 2013* Reply

Hi, thanks for trying my projects..
The problem is simple.
The 9V battery don't have enough current for your circuit, you will need another type of battery that can handle more current.

The bluetooth module and DC motors takes to much current from the 9V battery

Rui Santos *December 12, 2013* Reply

Hi, thanks for trying my projects..
The problem is simple.
The 9V battery don't have enough current for your circuit, you will need another type of battery that can handle more current.

The bluetooth module and DC motors takes to much current from the 9V battery.

sujith *December 12, 2013* Reply

Awesome tutorials..Thank you very much.Sir ,how can i connect HC05 module with PIC mcu ? please help…

Rui Santos *December 12, 2013* Reply

Hi,
thanks for your feedback.
That question requires almost an entire tutorial.
What I can tell you right now is that it works like it does with the Arduino… The bluetooth module will establish a communication via the TX and RX pins.
and your smartphone will establish a communication with the bluetooth module.

It will also depend in which PIC you'll be using. you need to read the datasheet…

bryle *December 17, 2013* Reply

hi..is it possible to power up arduino like in your project with 18v dc supply (2 9v dc battery connected in series)??since it doesnt work in 9v dc supply??and what can you advice to me to power up my bluetooth controlled robot..
thanks morepower..

Rui Santos *December 17, 2013* Reply

Don't do that… That's not a good idea. Too much current probably.
One way to do that is using AA batteries with some battery holder.

The best way is to get a LiPo rechargeable battery for the Arduino.
Here are some that might be good for your project:
http://www.adafruit.com/category/44

before you buy anything make sure you get the right for your motors too.
the problem with the 9V batteries is that they don't have much current. It's better to use AA batteries in series 😀

I hope this helps bryle!
Have a nice day,
Rui

Lau *December 18, 2013* Reply

Hi, Thanks you for your remind. Yes, it may be lack of current for 9Vlot battery. In adddition, I had use your Android app and would like to add on new things on it. However, I do not how to open your attahced files such as .src and project.perproties Could you tell me how I can open your generic Android app source code in App Inventor please? I know that I have to use App Inventor on MIT wedsite, is there an off-line App Inventor for me to run the changing of the source code on Window platform please?

Rui Santos *December 19, 2013* Reply

hi Peter, I'm almost sure it's lack of current… that's the problem with 9V batteries…

I've made a video using MIT app inventor.
It runs on the browser and windows at the same time.
(You create the screen and look of your app on the browser. The functions, what your app actually does is programmed with a windows application.)
http://randomnerdtutorials.com/how-to-use-app-inventor-with-arduino/

Please watch the video on that post where I explain everything. Let me know if you have any questions!

Rui

bryle *December 18, 2013* Reply

thanks a lot rui..for helping..
im kind of confious sir ,about the IC of L293D..cause there's another one IC the L293DNE??you think it really matters if i use the L293DNE IC..thanks for helping sir

Rui Santos *December 19, 2013* Reply

Hi Bryle,
I'm glad I could help.
Some IC's have different versions, the L293D as some variations just like the L293DNE.
I just took a quick look and they seem to work exactly the same.
But before you test anything check both IC's datasheets and compare the pins Inputs and Outputs and voltages.

Peter *December 18, 2013* Reply

Hi Rui,
Could you tell me which development platform for me to edit soruce code for BlueArd please? Is it Eplice or Oracle Java Development Platform?
Since I would like to edit source code for BlueArd, could you share with me whether there is an off-line App Inventor application software to use? Sometimes I can't do interface development by online-MIT App Inventor. Thanks

Rui Santos *December 19, 2013* Reply

Hi Peter,
When you download that .zip folder it comes with 3 files.

Arduino Sketch
BlueArd.apk
BlueArd Source files (for editing purpose)

The BlueArd.apk is the app installation file.
If you want to edit the app simply upload the BlueArd Source files into MIT APP Inventor.

You need to be online to use MIT App Inventor…

Peter *December 20, 2013* Reply

Hi Rui,

Thank you for your answer; howver, is it possible for me to edit the source code of the app by using off-line App Inventor or other opensource freeware please?

In addition, I've got another problem that I could contorl turn left and right of the mobile robot using Android cell phone; but the robot could not be morved forward and backward, somethimes left wheel was moving meanwhile right wheel was not moving in parallel speed. I wonder whether the circuit power could not supply to motors via L293D since I am using 9 VItage battery to supply power the whole MCU control circuit board and L293D.
My tutor told me that it shall be supplied of power to motors vis L293D independently.
Could you share with me your opinion please?
Many thanks.

Peter *December 20, 2013* Reply

Hi Rui,

I had followed your suggestion to open BlueArd project source code, but the online program prompted me error since your project.property file is not .aia file.
I could not attach the print screen for your reference; would you advise where I can download your a completed update projecy source codes please?
Thanks

Rui Santos *December 22, 2013* Reply

yup you're right my source files no longer work with MIT app Inventor…
They updated their entire website.
I need to create everything again from scratch…
Right now I don't have the time do that… in 2 weeks or something I'll create a new source code.

Sorry. They erased all my projects that I thought were saved :S

Peter *December 23, 2013*

Hi Rui,

Yes. MIT App Inventor updated to version 2; but finally I could find out the old version to edit your soure codes. Many thanks.

Piyush K *December 20, 2013* Reply

Hey,
I am using a single 9v battery and following your tutorial exactly. Also I am using 2 12v dc motors (60rpm). Is the 9v battery suuficient to run the motors? If not, what alternative can i use?

Rui Santos *December 26, 2013* Reply

Hi Piyush,
No… the 9V battery won't be able to handle that.

I would recommend you to get some Lipo rechargeable batteries for your project!

Michele B *December 20, 2013* Reply

Hey Rui,
I purchased an hc 05.. but it has 6 pins.. There are 2 voltage pins.. 5v and 3.3v.. Which pin should i connect to my arduino..also do i need a voltage divider to connect my hc 05 rx tx pins to arduino?

Rui Santos *December 22, 2013* Reply

You can use either the 5V or the 3.3V… it's you choice.
yes I recommend you to use a voltage divider !

Michele B *December 23, 2013* Reply

Awesome..that worked! Thanks
Also i tried creating your app in MIT App Inventor 2..it shows an error when i try to connect HC-05 in the list..the error says unbound null..
Here is the image of my blocks..
http://postimg.org/image/h2amfiwbj/

Bryle *December 25, 2013* Reply

Hi sir rui thanks again for helping..sir can you help me where to put voltage divider and how to make voltage divider?like providing me schematics that i can easily understand cause im a newbie in arduino and also to electronics..please help me sir..merry christmas sir

Rui Santos *December 25, 2013* Reply

Thanks Merry Christmas for you too!
You can create a voltage divider just like the guy in the link below did:
http://www.thalin.se/2013/01/fritzing-veroboard-and-breadboard.html

You don't need the voltage divider for regulated power supplies.

But to be 100% sure always use the voltage divider.

kishuko *December 29, 2013* Reply

hello friend have a doubt everything works but the part where you press STOP, FORWARD and BACKWARD not work, only works for the left and right and not to do, please a solution, I did all the step to the tutorial is not wrong if the APP arduino or codes.
please help me is for my final semester project please.
congratulations and greetings from grasias por conpartir PERU 2014 and happy new year hope your prompt help.

Rui Santos *December 30, 2013* Reply

Hi Kishuko.
Thanks for trying my project!

Does the stop, forward, backward commands work when you're testing you're project using only the Arduino Serial monitor?

Happy new year,
Rui

bataa *December 31, 2013* Reply

Happy new year!

I'm bad english language. Go! with left and right with reverse working how to solve.

Rui Santos *December 31, 2013* Reply

Hi bataa,
Happy new year!

I didn't understand your question, could you please repeat again?

thanks

bataa *January 1, 2014* Reply

Press Right ! GO working is like .

bataa *January 1, 2014* Reply

error 516 unable to write transport endpoint not connected

Bryle *January 2, 2014* Reply

Sir gudeve happy new year can i ask u a question how can i edit ur android app??

Rui Santos *January 2, 2014* Reply

Hi Bryle,
Please first read the update on top of this page.
then you need to download the source code provided.

it include a .zip folder with 3 files inside.
Unzip it and you need to upload the BlueArd Source files into App inventor.

Mike *January 5, 2014* Reply

Rui,

Thanks for this great tutorial. I have downloaded your source code and have it setup. I am hoping to add in some buttons for lights and other functions, but was wondering how you figured out which byte number to send to correspond to the arduino pin. Button1 (GO!) = 49, which drives motors forward.

I'm happy to send you the code when I have it implemented.

Thanks

Rui Santos *January 7, 2014* Reply

Hi Mike!
Thanks for trying my projects,
I would love to see what you come up with,
You can submit your project here:
http://randomnerdtutorials.com/contact

Good luck with your project,
Rui

Mike *January 7, 2014* Reply

How did you figure out which byte number to send to correspond to the arduino pin. Example: Button1 (GO!) = 49, which drives motors forward from a pin.

If I wanted to turn on a light using digital input 8, what byte would I send?

Rui Santos *January 8, 2014* Reply

That byte has nothing to do with the Arduino digital pins…
if you want to turn on a light using the digital pin 8 you can create an if statement for example.

```
if(state=='0' ){
digitalWrite(8,HIGH);
}
```

and the Android app would send a 49 to the arduino via bluetooth.
if you want to turn off for instance you can do this.

```
if(state=='1'){
digitalWrite(8,LOW);
}
```

The Android app will send a 50 via bluetooth.

this is just an example you can send any values you want and you arduino code can do whatever you want.
I hope this helps,
Rui

P.S. Please download all my code, upload it to the App Inventor (read the update at the top of the page) and you'll see how it works

Simon *January 17, 2014* Reply

Hey Rui,
I am following your project and using 2 12v DC motors. I am making an independent robot so won't be providing power through USB. I am thinking of providing external power supply to Vc pin of l293d which provide power for the motors only instead of directly connecting it with the 5v pin of arduino. So what do you suggest as a power supply for arduino and power supply for the motors separately?

Rui Santos *January 18, 2014* Reply

Hi Simon,
As you said you need an external power supply.
If it's to control something that need to be in movement like a robot.
I would get a Lipo rechargeable battery to power up those motors.

Otherwise just find a 12V wall chart power supply
I hope this helps

bryle *January 19, 2014* Reply

gudeve sir rui..
what exact current do i need to run the motor like a robot??
i tried to connect the motor on a four 1.5v battery, and 9v battery for arduino and bluetooth module..it runs, but when i tested it on ground the motor seems cannot handle the load..please help..godbless sir

Rui Santos *January 22, 2014* Reply

You need to read the datasheet from your DC motor…
and see how much voltage and current it needs to work properly.
Then search for the right battery for that…

javin *January 21, 2014* Reply

hi rui, first of all great project man….but there is a problem with BLUEARD…..it shows an error….. "Need BLUETOOTH_ADMIN permission: neither user 10115 nor current process has android.permission BLUETOOTH_ADMIN"

Rui Santos *January 22, 2014* Reply

that error happens you when you're installing the app?
or while you're trying to connect to the bluetooth module?

sihamabdul *January 25, 2014* Reply

j'ai un module JY-MCU Bluetooth Wireless Serial Port Module for Arduino que je l'ai acheté de ce site: et je veux savoir est qu'il marche ou pas ainsi s'il vous plait vous pouvez m'envoyer le code source sur mon mail:

Rui Santos *January 27, 2014* Reply

I apologise but I don't speak french I only speak English or Portuguese sorry.
If you want to download my source code for this project, you can either click like on the locked content.
Or you simply enter your email here:
http://randomnerdtutorials.com/download

If you have any problems feel free to contact me here:
http://randomnerdtutorials.com/contact

javin *January 26, 2014* Reply

while i connect it…

Rui Santos *January 27, 2014* Reply

Can you share with me a print of the problem or something?
Otherwise It can be anything :S

Panayiotis *January 26, 2014* Reply

Thanks Thanks Thanks !!!!!
Great job!!!!

Rui Santos *January 27, 2014* Reply

Hi Panayiotis,
I'm glad you enjoyed it!
all the best,
Rui

raju *January 29, 2014* Reply

which platform u r using to create apk file….even im using ecllipse
i downloaded ur apk files but how can i edit those files…pls guide me throgh out this project plzzz….and send me the coding for arduino

raj *January 29, 2014* Reply

hi rui i need ur assistance through out my project so pls help me….i want make an car controlled over bluetooth using android app….so send me details about it
and which platform u r using to create android app…im using eclipse…and send the details of everypart that needs to tis project…thank you

Rui Santos *January 29, 2014* Reply

Hi Raj,
To create this android app I'm using MIT APP Inventor, as it says on the top of this post.
You can download all my code by clicking "like" or "tweet" and my code will unlock.

Or you can go to this page and download all my projects for free:
http://randomnerdtutorials.com/download

I'm not using eclipse…
please read this posts below and watch the video tutorial:
http://randomnerdtutorials.com/how-to-use-app-inventor-with-arduino/

It's a simple introduction to MIT App inventor by creating a blink LED project.

I hope this helps,
let me know if you have any more questions!
Rui

rishabh *January 30, 2014* Reply

Hi,
Thnx for tutorial, it really helped a lot. Can you please tell me from where I can download your app.

Rui Santos *February 2, 2014* Reply

The app can be download from this page. Just click like or tweet.
Or you can go to this page enter your email and you'll have access to all my projects:
http://randomnerdtutorials.com/download

sharmila *February 5, 2014* Reply

hey rui
i want screen shot of appiinventor bluetooth connection designer block……
and i want to learn how to creat app in app inventor ….

Rui Santos *February 5, 2014* Reply

It's easier if you download my app and change the code sharmila…
Watch this tutorial first to learn more about MIT App inventor:
http://randomnerdtutorials.com/how-to-use-app-inventor-with-arduino/

you can download all my project here: http://randomnerdtutorials.com/download

Have a nice day,
Rui

ivan *February 7, 2014* Reply

Dear Random Archive BlueArd Source (for editing purpose), I can not open from the MIT App Inventor please point me how I can edit?

Rui Santos *February 9, 2014* Reply

The source for this project can only be edited with MIT App inventor Classic version.
It won't open with AI2.
(Please read the top of this page and you'll understand where you need to go)

Thanks for trying my project!
Rui

José Silva *February 13, 2014* Reply

Curto bué os teus projectos, são uma boaajuda nos meus, bom trabalho, Rui

Rui Santos *February 14, 2014* Reply

Obrigado José!
Vou lançar mais um projecto com bluetooth amanhã (sábado) com o novo MIT App Inventor 2.
Abraço,
Rui

John Eswin Nizar *February 16, 2014* Reply

Hi Rui Santos,
I have a question, why pin Vcc Bluetooth HC-05 has been given 5V DC from pin 5V DC Arduino (as a reference datasheet Bluetooth HC-05 max 3.3V) ? It could be damage, isn't it?
Thanks for your explain.

Rui Santos *February 18, 2014* Reply

Hi john,
thanks for asking!
My bluetooth module the HC-05 (has a max voltage of 3.3V to 6V)
It says on the label also

Gary Lam *February 17, 2014* Reply

Hi, I am creating a app used in bluetooth control wheelchair via arduino in my project. Your design inspire me a lot, thank you!
However, I have a problem, I downloaded your source which used in app inventor and arduino code.When I ran it, the app said my android phone was connected bluetooth with arduino but it had no response when I clicked the button on my phone. The strange thing is that it responses correctly when I enter signal by serial monitor like "1″,"2″,"3″. I can't find out the problem, do you have any idea?

Rui Santos *February 18, 2014* Reply

Did you connect the TX from the bluetooth Module to the RX of the Arduino? (and vice versa)

Can you elaborate a bit more otherwise it can be a compatibility problem with your smartphone…

Abdulrahman *February 25, 2014* Reply

Thank you man i have a final year project it's a smart home. your tutorial will help me a lot thanx again

From Afghanistan

Rui Santos *February 25, 2014* Reply

That's awesome Abdulrahman!
I'm really glad I could help!

Have a nice day,
Rui

Jezreel *February 28, 2014* Reply

hi sir, what other types of bluetooth module that are compatible with this project?

Rui Santos *March 2, 2014* Reply

Hi jezreel,
I've only tested this project with this bluetooth module.
If you already have a different one you should try.
This project should work just fine with any bluetooth module, because all of them establish a serial communication with the Arduino.

Have a nice day,
Rui

Kaspras Videnieks *March 2, 2014* Reply

Nice app U got there! I have one dc motor to control! that should be a problem! i would love to change your app so there were 4 buttons !2 of them just the way it is – on a push it sends a comand but 2 of them would be working like so – when i push it and hold it – it would send letter A to arduino and on a release it would send lower case coreseponding comand letter , in this case a! and for other button B,b! BUT THERE IS ONE PROBLEM – i don`t know how to make such a button witch works on touch and release….

Rui Santos *March 2, 2014* Reply

Thanks Kaspras,
I'm glad you found my app useful.

I recommend you to test my project first and see if it's working for you.
Then open my app with MIT App inventor and start getting familiar with the programming environment.
It's pretty easy to do what you're looking for.
They have pre-built in functions to trigger actions On click buttons for example.

Have a nice day,
Rui

Kaspras Videnieks *March 2, 2014* Reply

Still can`t find a way to edit a button to make it work like i need to….on a push it would send a capital A and on a release it would send lower case letter a !

Rui Santos *March 4, 2014* Reply

Have you tried my project first?
What have you done so far with MIT App Inventor?

Kaspras Videnieks *March 5, 2014* Reply

Changed to my needs your app… except i can`t find info on how to create a button witch sends on comand when i press the button and hold but then when i release it sends another. like rc car control button

Rui Santos *March 7, 2014* Reply

There's a built-in function called LongClick, that should do exactly what you're looking for.
Here's a print screen to show you exactly that:
http://bit.ly/1laTakG

hafis ali *March 6, 2014* Reply

thanks for the information sir

Rui Santos *March 7, 2014* Reply

You're welcome Hafis!
Thanks for reading,
Rui

Amarendra Singh *March 6, 2014* Reply

Hi,
does this bluetooth module HC-06 works correctly with this project?
The link is here
fabtolab.com/HC-06-bluetooth-module?search=HC-06%20Bluetooth%20Module

Rui Santos *March 7, 2014* Reply

yes Amarendra, that bluetooth Module should work just fine!

Amarendra Singh *March 8, 2014* Reply

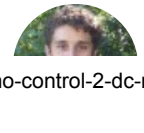
thanks for my last question.
I want to ask one more question
How we will supply power to arduino in wireless projects?

Rui Santos *March 12, 2014* Reply

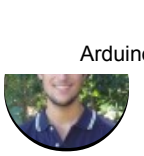
Hi Amarendra,
You can supply the arduino with a rechargeable battery for example!

Amarendra Singh *March 26, 2014*

thanks for assisting me in this project.
its working…



Rui Santos *March 29, 2014*



Awesome Amarendra!
I'm glad to hear that.

Kaspras Videnieks *March 7, 2014* Reply

Ok thanks Rui! i`ll give it a try!

Kaspras Videnieks *March 7, 2014* Reply

How to seperate those 2 comands – i`ve added them but i need that seperation…
PLEASE take a look and try to explain to this dum man what he need to do to make this finaly work… http://tinypic.com/r/wwnty9/8
Would even these comands go to arduino serial like when i send them trough arduino serial monitor?

Rui Santos *March 12, 2014* Reply

I don't have the time to make the code for everyone who asks me sorry.
There's simply not enough time in the day to do that.
I already told you you can use the long click function to do that.
and you can use a NOT logic block for example to see when you stop pressing the buttons.

I guess you can change most of the arduino code to do exactly that. and don't worry so much with the app.

Sorry for not being able to help you much more than this.
Have a nice day,
Rui

Stefan Christ *March 10, 2014* Reply

Hallo Rui,

first of all thank you for your awesome description!!
I had made some more buttons in the App and build some LEDs that can show the way, but now i don't know how to set my arduino that the motors only run when i press the bottons on the app without using a stop botton…

Do you know a way to to this?

Thanks a lot
Stefan

Rui Santos *March 12, 2014* Reply

Hi Stefan,
Please read some of the comments above.
I think that can be accomplished with the LongClick feature of the buttons.
and the change the arduino code to be able to do that.

Thanks for asking,
Rui

Sonia M *March 10, 2014* Reply

When will you upload the app inventor 2 sketch?

Rui Santos *March 12, 2014* Reply

Hi Sonia,
I don't have time to update those projects right now.
And they work just fine with Beta MIT App Inventor.

You can check my two most recent project with MIT App Inventor 2.
http://randomnerdtutorials.com/control-your-arduino-with-voice-commands/

http://randomnerdtutorials.com/android-app-that-sends-a-message-to-your-arduino/

Both Beta MIT app Inventor and the new version work really similar.
Have a nice day,
Rui Santos

Md Shahid *March 11, 2014* Reply

Sir when i m trying to connect with HC05 module with my phone using blueArd app then it showing…

Runtime error
Need BLUETOOTH_ADMIN permission:Niether user 10113 nor currentprocess has android permission. BLUETOOTH_ADMIN

pls sort out my issue.

its paired and working good with serial monitor.but not working with app blueArd(not connecting actually).sor out plz

Rui Santos *March 12, 2014* Reply

Can you try this project with another smartphone?
It might be a compatibility problem with yours i guess.
Or you have to root your android…

Najam *March 16, 2014* Reply

Hi Rui
How to change the baud rate of the bluetooth module? Mine (HC-06) has default baud rate of 38400. I want to change it to 9600, need you valuable advice.
Thanks in anticipation…

Rui Santos *March 19, 2014* Reply

Hi Najam,
I've never changed the baudrate but I've found a good tutorial
http://mcuoneclipse.com/2013/06/19/using-the-hc-06-bluetooth-module/

I hope this helps!

pritesh gupta *March 18, 2014* Reply

hey there
awesome work bro!

just wanna ask one thing if I want to activate an alarm whenever I stop the motors, does it possible with extra components and if yes please help me!

Rui Santos *March 19, 2014* Reply

Yes,
That's something you can easily do.
Open my arduino code provided-
Simply add a new OUTPUT in the Arduino (a new digital pin). That way you can control some type of buzzer.
Then in the "if" statement related to the "STOP" button
Simply activate that buzzer everytime it's pressed the button

I hope this helps!

Ayoub *March 19, 2014* Reply

Hi Rui Santos
I want to use the captor LM35 in the program but i didn't found his library , can you help me please!!thanks for anticipation .

Rui Santos *March 19, 2014* Reply

Hi Ayoub,
Can you send me a link for the part you want a library?
And I'll see if I can't find.
Have a nice day,
Rui

Rduino Beginner *March 19, 2014* Reply

Hi, currently I'm working on this similar project but controlling the mobile robot through the accelerometer sensor. Now, I'm facing problem on my Bluetooth connection. I successfully pairing both my android and arduino uno. On the serial monitor it shows the data but my DC motor is not rotate. I dont know why. Do I need to setup or configure anything with the Bluetooth module?? This is my first time using arduino with bluetooth connection and I'm really noob. Help me pls..

AS for this project, I'm using:

1.Arduino Uno
2.Cytron Bluetooth Module (http://www.cytron.com.my/viewProduct.php?pcode=BLUEBEE) + XBee Shield (http://www.cytron.com.my/viewProduct.php?pcode=SHIELD-XBEE)

Rui Santos *March 25, 2014* Reply

Hi!
What app are you using?
have you started making the code for the accelerometer?
If you're trying to use the bluetooth project for the first time.
I recommend you to test my project first as an example and see if it works for you.
Then later start creating your own projects.

I hope this helps,

Rui Santos

Rduino Beginner *March 26, 2014* Reply

Thanks for reply Mr. Rui Santos,

At the moment I develop my own apps using MIT App Inventor..In fact, I also try to use the available apps by downloading them..sadly both of the apps didn't work. What do you mean code for accelerometer? Is it the arduino code or the apps code?

Rui Santos *March 29, 2014* Reply

Which app didn't work for you?
you can use the accelerometer function on the app.
It's provided on MIT App Inventor.

Rduino Beginner *March 29, 2014*

The apps that I've develop and download. Both didn't work. Yes, I already include accelerometer function on MIT App Inventor in my app.

Rui Santos *April 5, 2014*

But what have you tried?

hafiz *March 23, 2014* Reply

hi
im doing the same project.here in tutorial i cant see that you connect a power supply for l293d driver.

Pritesh Gupta *April 1, 2014* Reply

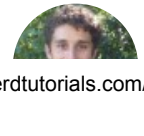
yes you can't see any power supply, but just notice a cable attached to Arduino, that is supplying power to Arduino.

Rui Santos *April 5, 2014* Reply

yeah that's true.
I'm supplying the arduino with the USB port of my computer

hafis ali *March 23, 2014* Reply

hi
im doing the project control of dc motors using smart phone
i can control the motors by serial monitor.but not work on my smart phone.(using galaxy duos)
please help



Rui Santos *March 25, 2014* Reply

What exactly is not working for you?
what have you done so far?

mitun *March 25, 2014* Reply

Hello!
could you help to build an app like that by sharing the screen shots of “DESIGNER” AND “BLOCK”?
THANKING IN ADVANCE

Rui Santos *March 25, 2014* Reply

Sorry right now I don’t have the time to create that tutorial mitun…

Zeon *March 30, 2014* Reply

Hey Rui Thanks for the awesome tutorial..

I am trying to implement the same project using the same parts and arduino duemilanove now the problem is i am able to control the motors via the serial monitor of the ide but not via Bluetooth neither app or blueterm. I have tested the bluetoth module for communication via the led blink example.
also when i input commands via the serial monitor the commands motor left , right etc appear on the blueterm on my mobile but not being able to enter anything on the mobile

Rui Santos *April 5, 2014* Reply

Hi Zeon,
Have you tried all the steps I tell you on the tips?
Are the bluetooth cables connected to the Arduino properly?
TX from the Arduino goes to the RX of the Bluetooth module, etc…

Pritesh Gupta *April 1, 2014* Reply

If I remove Arduino’s Atmega328 IC and build the same circuitry on the breadboard by using 16MHz crystal and other components (that we can use to make arduino uno on breadboard)?

Pritesh Gupta *April 1, 2014* Reply

f I remove Arduino’s Atmega328 IC and build the same circuitry on the breadboard by using 16MHz crystal and other components (that we can use to make arduino uno on breadboard)the would program or sketch uploaded on it work?

Rui Santos *April 5, 2014* Reply

yeah It will work just fine Pritesh.
You can find plenty of information if you search on the web for something like, Arduino on a breadboard.

Vitor *April 4, 2014* Reply

Boas Rui , é o seguinte eu fiz a ligação certa como metes-te ai mas quando ligo o

arduino ao computador para alimentar o arduino começa a fazer um barulho sabes como resolve-lo ?

Rui Santos *April 5, 2014* Reply

Boas Vitor,
O Arduino começa a fazer barulho?
Isso tambem acontece com um simples LED a piscar?

Vitor *April 5, 2014* Reply

Não , foi a primeira vez que aquilo aconteceu-me e não percebi muito bem , vou desmonta–lo em principio de novo e voltar a montar para experimentar outra vez .

Rui Santos *April 12, 2014* Reply

Okok depois diz-me se já está a funcionar.
Abraço

Vitor *April 19, 2014*

Funciona já perfeitamente , devia ser um fio mal posicionado , obrigado

Rui Santos *April 25, 2014*

Ainda bem Vitor!
Fico contente que esteja a funcionar,
Abraço

Taichi *April 7, 2014* Reply

Hey Rui !!!
This is my error : “Runtime Error : need BLUETOOTH_ADMIN permission”.
I think it may be in your BlueArd.
Can you help me ???
What is problems??
Tks .

Rui Santos *April 12, 2014* Reply

Hi Taichi,
that’s a problem with your bluetooth setting. that never happened to me though. so make sure you go through all the bluetooth settings and enable all the permissions

Tamojit *April 10, 2014* Reply

Hi Rui
Nice project!
Do u hv any idea of how to control the speed of the motor using app inventor and

corresponding code for arduino?
I saw a video in youtube.
Here is the link:http://www.youtube.com/watch?v=7JXLQWzQITM
Plz reply asap if u can help.
Thanks in advance

Rui Santos *April 12, 2014* Reply

Hi Tamojit.
Using my app and if you change the arduino code to work similar to that vido you sent me you can control the speed of your DC motor just fine

Tyler *April 12, 2014* Reply

Hi Rui,

I'm trying to add a couple more buttons to the app that you built for the motor control. I'm controlling three different motors (each with different drivers) and I need two more buttons to control forward and backward movement. I've got two motors working like a charm, no problem. The issue that I'm running into is that I don't know what "number" to assign for the bluetoothclient byte to send to the android. I figured it would just continue on from the previous ones, 54…55…56, but that didn't work.

Can you help me?

Rui Santos *April 12, 2014* Reply

Hi Tyler,
Those numbers 49,50, etc… are not random numbers I've decided to attribute.
Those are numbers from the ASCII table.
Please take a look at it here: http://randomnerdtutorials.com/ascii-table/

48 decimal in the android app means '0′ char in the arduino and so one

Zsolt *April 13, 2014* Reply

Hi Rui
Good project!
How can I make this with:
http://www.amazon.com/gp/product/B00813HBBO/ref=as_li_qf_sp_asin_il_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=B00813HBBO&linkCode=as2&tag=wwwrando20

Thanks.

Rui Santos *April 16, 2014* Reply

Hi Zsolt,
If you read this tutorial: learn.adafruit.com/adafruit-motor-shield
You can combine my project with that tutorial and control your the DC motor with the shield.

I hope this helps,
Rui

pagina web *April 16, 2014* Reply

Do you mind if I quote a couple of your articles as long as I
provide credit and sources back to your weblog?
My website is in the very same niche as yours and my visitors would certainly benefit from
a lot of the information you present here. Please let me know if this alright with you.

Many thanks!

Rui Santos *April 18, 2014* Reply

Please contact me trough the contact form for more details.
http://randomnerdtutorials.com/contact

Thanks!

Lalit Kumar *April 17, 2014* Reply

Hi, Rui Santos
this is my first write to you, I am working on “LED On-Off application” this is very simple application.I am using HC-05 bluetooth module, arduino UNO and Android development tools like Eclipse.
I have tried lots of android application but does not work for me.
can you please help me in developing a simple LED on-off two button application in android.
I have tried below application
http://digitalhacksblog.blogspot.in/2012/05/arduino-to-android-turning-led-on-and.html
but it get crashed on pressing “On button”
thanks.

Rui Santos *April 18, 2014* Reply

Hi Lalit,
Unfortunately I don’t work with android development so I can’t help you much…
I’ve just created a few simple apps with MIT App Inventor and that’s all…

Have a nice day,
Rui

Shantanu Biswas *April 18, 2014* Reply

Hi,
Excellent Work!!!!!!!
But can’t find this BLUEARD App, so can u please help me with the download of BLUEARD app.

Rui Santos *April 18, 2014* Reply

Thanks Shantanu!
you can download the app by clicking “Like” or “tweet”.
Or go to this page: http://randomnerdtutorials.com/

thanks again!

Shantanu Biswas *April 19, 2014* Reply

Thank You!!!!!!!!!!!!! For sharing this Page.
Actually we are doing you're project as a Mini Project
in our institute. We really liked this….. Its a great website created by you, helping young engineers.
We may need your help in future too, so your cooperation will be highly appreciated by my friends and me

thanks again!!!!!!!!!!!!!!!!!

Rui Santos *April 25, 2014* Reply

Thank you for your words!
Let me know if you need further help!
All the best,
Rui

Cintia Barroca *April 19, 2014* Reply

Ola, estou a tentar fazer este projecto mas infelizmente não funciona.
Quando carrego num botão na app, o arduino parece receber a informação mas os motores não andam… tenho o HC-07 e o linvor, qual o melhor?
qual será o problema?

Rui Santos *April 25, 2014* Reply

Olá Cintia,
Qualquer modulo de bluetooth que funcione por comunicaçao serial deve funcionar bem com o meu projeto.
Um dos problemas comuns poder ser que o seu modulo de bluetooth venha mal configurado/ou com outra configuraçao por defeito.

Para este projeto funcionar com o arduino tem que configurar a baud rate do modulo de bluetooth para 9600

arun *April 22, 2014* Reply

hi rui santos
firstly i would like to thank u for sharing your experiences and project idea's in web and i have done this project and it is working perfectly fine, and now i'm willing to add few more buttons to that app so that i can perform few more tasks, can u please send that .aia file of 2 dc motor control to me so that i can improve this project little.

once again thank u

Rui Santos *April 25, 2014* Reply

Hi arun,
Thanks for your feedback!
Sorry I don't have the .aia file for this project.
This project was done with the first version of MIT App Inventor.
(If you read the update at the top of this page, you'll see how you can upload this code into the older version of MIT App Inventor an edit my app.)

I hope this helps,

Rui

P.S. You can check a more recent project using MIT App Inventor with the new version:
http://randomnerdtutorials.com/android-app-that-sends-a-message-to-your-arduino/
http://randomnerdtutorials.com/control-your-arduino-with-voice-commands/

arun *April 26, 2014* Reply

its ok rui santos. i will try this app with mit app inventor 2, and im also eagerly waiting for your new projects and posts, i request you to post your new ideas soon in your website

Rui Santos *May 3, 2014* Reply

Hi arun,
Thank you for your feedback! More projects coming out pretty soon!

beh *May 2, 2014* Reply

Hi Rui, if is to add in 2 limit switch between the motor to let it toggle forward and reverse, is it possible?

Rui Santos *May 3, 2014* Reply

Yes I think so!
Which is exactly the switch you're talking about?

wann *May 6, 2014* Reply

hi Rui..i already try your project.i got this problem..the motor wont rotate when i press 2.. but it functioning well when im press 1 or 0..can you help me.

Rui Santos *May 17, 2014* Reply

Hi wann,
Are you sure the L293D IC is well wired?
Please follow my exact schematics. If those commands are working, all the others should be working too…

hakim *May 7, 2014* Reply

hi.. i have problem with the motor. the motor cannot function well. only one motor can rotate at one time. i use bluetooth spp and bluebee. is it effect the circuit??

Rui Santos *May 17, 2014* Reply

Can you send me the links to those devices?

Diego Fernando *May 8, 2014* Reply

hello friend can do with leonardo

Rui Santos *May 17, 2014* Reply

This project works with the Leonardo.
But the serial communication with the Leonardo is a bit different. So You need to change my arduino code to receive the data properly via serial

bill *May 10, 2014* Reply

Hi! Thanks for these awesome tutorials!! When I try to connect my phone to Bluetooth it cannot find any nearby Bluetooth devices to connect to. Do you know what the problem is?

Rui Santos *May 17, 2014* Reply

Hi bill,
Have you tried your bluetooth module with other projects?
Are you sure it's working?
how far are you trying to connect?

bill *May 21, 2014* Reply

This is my first project using it. Is it just defective? I'm trying to connect from about a foot away.

Rui Santos *May 26, 2014* Reply

It might be, I'm not sure though.
It should work just fine… Read the feedback from the seller from where you bought the item.,,
Otherwise if you follow my exact steps it should work just fine.
Please read carefully my tips on this blog post

bonney *May 23, 2014* Reply

hei Rui,,,,if i want to change the pin from arduino….can it still be working ….

Rui Santos *May 26, 2014* Reply

Hi bonney,
which pins you want to change?
If you make the appropriate modficiations to the Arduino code, yes you can change the pins

bill *May 31, 2014* Reply

Ok this time I redid the circuit using your,single DC motor tutorial. I connect via blueterm and it actually worked! But then I got more problems. It would disconnect and I would have to reconnect. Then it would say it was connected but when I tried to send a command it would disconnect again. Now it won't connect at all.
The company is sending me a new one since they actually sent me the wrong one that

had six pins instead of four. It should still work though, even with six. So for now I'll just assume it's defective and wait for my new one. I hope it at least works.
Thanks for the great tutorials!

bill *June 6, 2014* Reply

Hey how would I send a command that only makes the DC motor turn on for 10 seconds then turn off? I've tried several methods but none seem to work. Thanks!

Rui Santos *June 8, 2014* Reply

You can simply create a delay(10000) that waits for 10 seconds… that's not the best way, but it works

Alex *June 6, 2014* Reply

thanks for the tutorial but can you please tell me what changes do i need to make so it would go forword as long as i press the botton on my mobile?

Rui Santos *June 8, 2014* Reply

Hi Alex,
I don't think that works with MIT App Inventor.
I know MIT app inventor has a long button click feature… but I'm not sure if it would work as I've never tested myself

Liviu *June 22, 2014* Reply

Hello Rui, thanks for tutorial. Can I use the L298 shield for this? http://www.robofun.ro/shields/shield-motoare-l298-v2 this is the one, it connects to arduino through pins 3, 5, 6, 9. Any major changes i have to do in the code? Regards!

Rui Santos *July 4, 2014* Reply

Hi Liviu,
I think that shield has a few project examples or it probably comes with a custom library,
Compare their project examples with my code.
You might need to add their library and just change a couple of lines from my code where I control the DC motor.
But my bluetooth app will work just fine with your shield

sam *June 23, 2014* Reply

hi, i want to ask, can i use HC-06 instead of HC-05?

Rui Santos *June 24, 2014* Reply

Hi Sam,
This project works just fine with that bluetooth module, since both HC-05 and HC-06 are the same.
Have a nice day,

Rui

sherri *June 24, 2014* Reply

I just like the valuable info you provide for
your articles. I'll bookmark your blog and test again right here frequently.
I am rather certain I'll be informed many new stuff right here!

Best of luck for the next!

Rui Santos *June 24, 2014* Reply

Thank you for your input!
Have a nice day,
Rui

Mhesh *June 26, 2014* Reply

At a time how many Bluetooth device can i connect to the mobile…..

Rui Santos *July 4, 2014* Reply

You can only be connected to one bluetooth device at a time.

philip *July 1, 2014* Reply

good day sir . .is it possible for a 12v DC motor ?????….

Rui Santos *July 4, 2014* Reply

Yes you can do that with a 12V DC motor.
Here's a good tutorial for that: http://www.instructables.com/id/Use-Arduino-with-TIP120-transistor-to-control-moto/

philip *July 7, 2014* Reply

sir should i program first the arduino before connecting the bluetooth module??????

philip *July 7, 2014* Reply

sir can you help me with my project . . .i want to add a water sprinkler to your project . . . when i click "GO!" the sprinkler will turn on . . and stop after a few seconds . . .

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