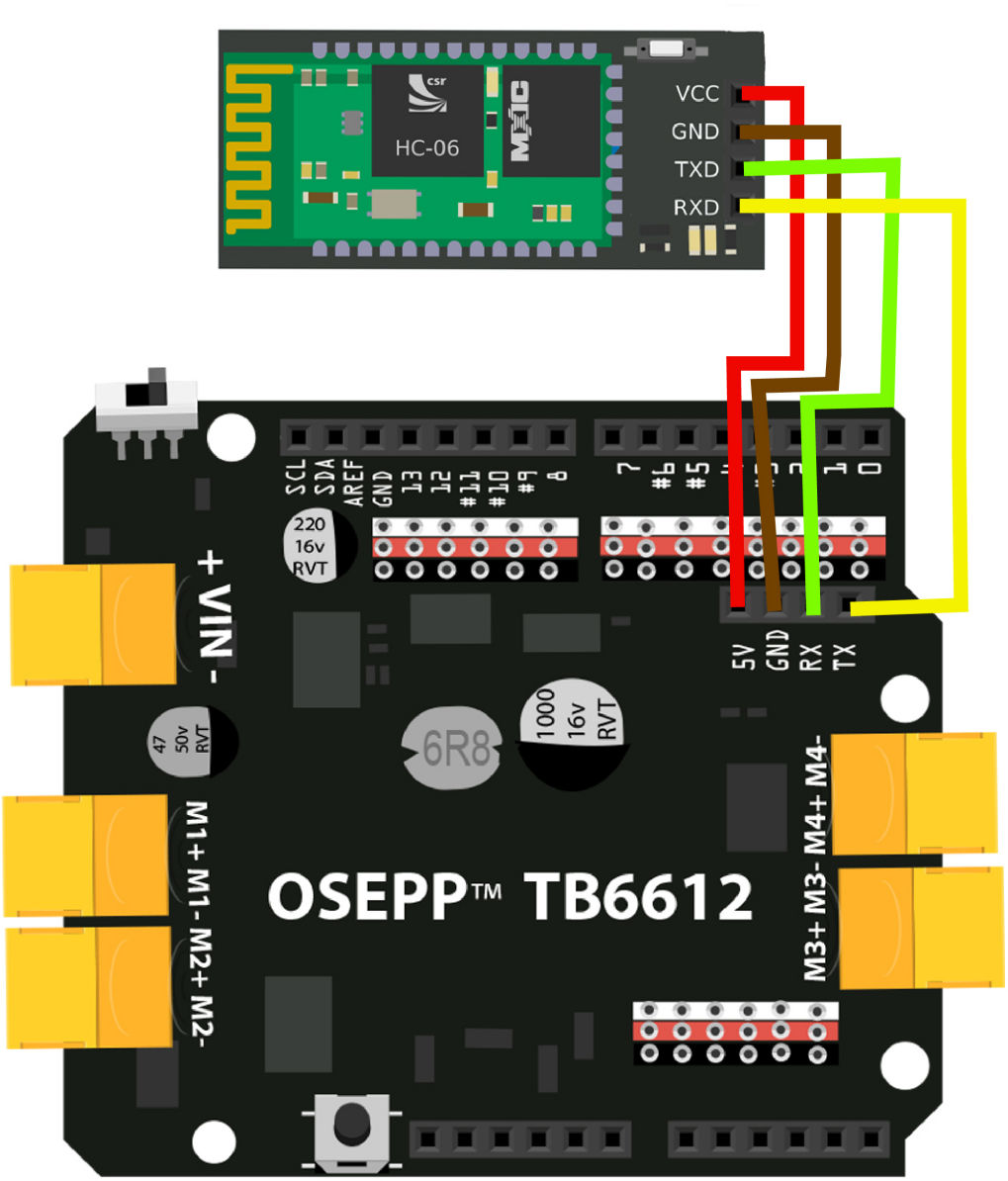
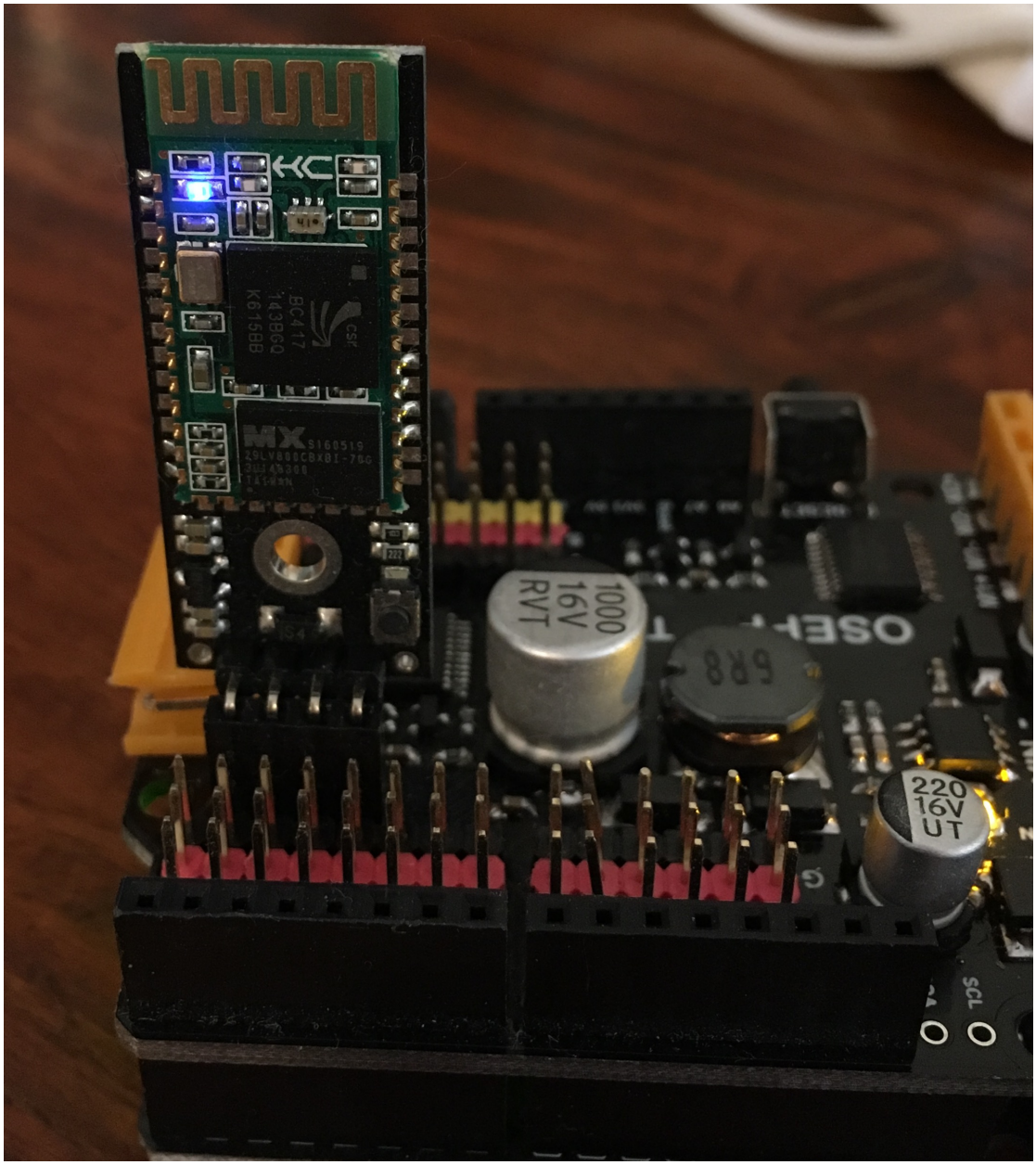
BLUETOOTH APP CONTROLLER

In this tutorial, we are going to control our Mechanical Kits with an Android app through bluetooth.

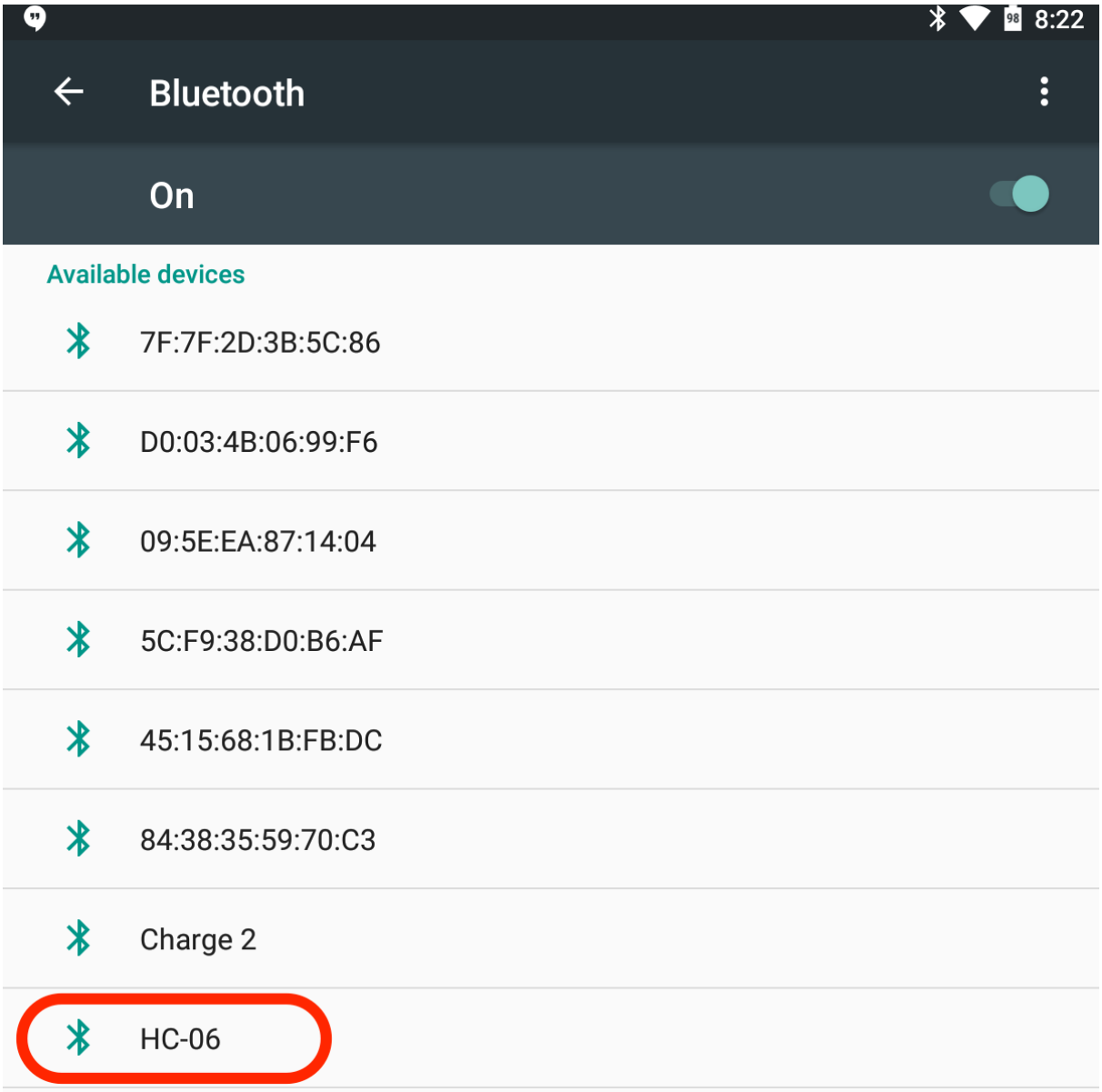


You can directly insert the **Bluetooth Module** into the TB6612 shield. We are on our way to adding Bluetooth control to our Mechanical Kit!

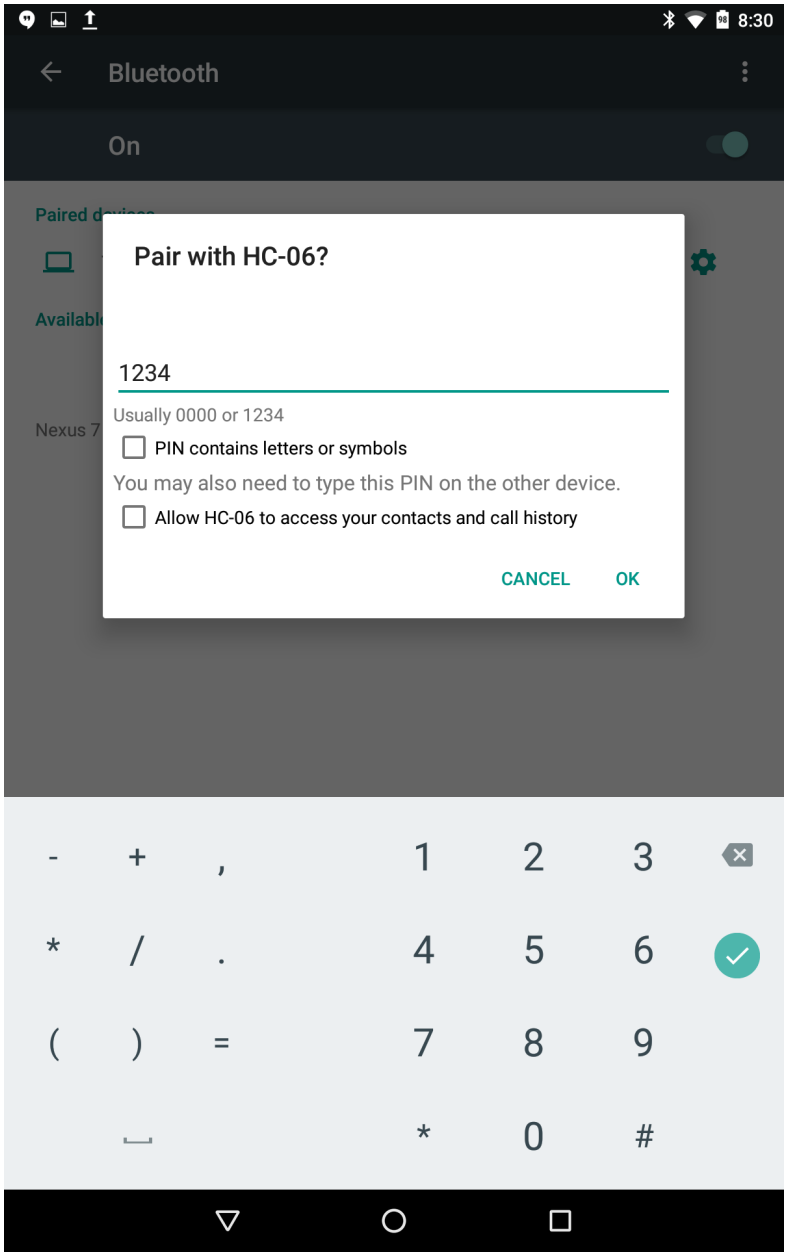


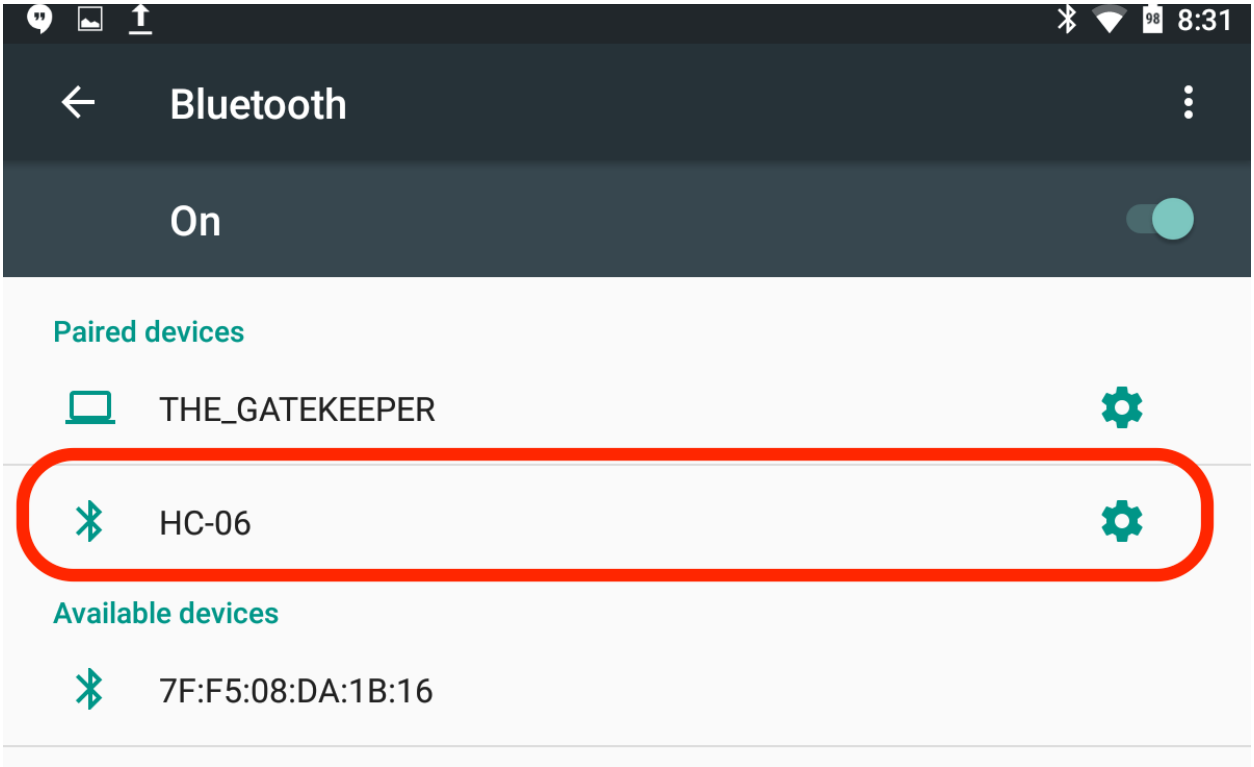
Once you have connected the Bluetooth Module to the TB6612 motor shield, you will see the LED on the Bluetooth Module continuously blink. The BT module is looking for devices close by to pair with. This is what we want. **We need to pair our Android device to our BT Module.**

Navigate to your Android devices settings and enter the bluetooth menu. As your BT module is powered and blinking, you will see “HC-06” as the BT module name pop up in the “available devices”.



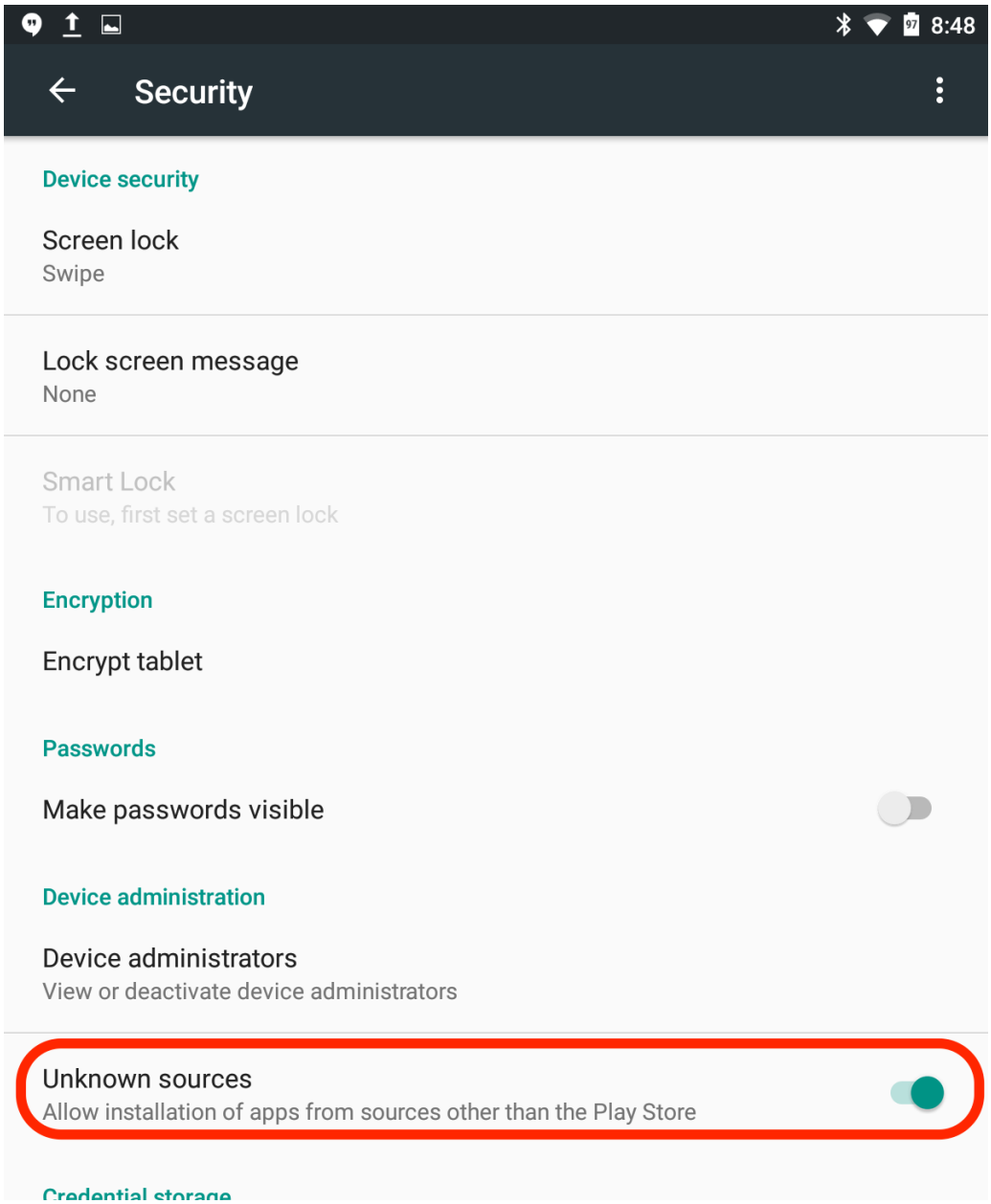
Once selected, you will need to enter the BT module security code. The code is “1234”.





Congratulations! You have now paired your BT Module to your Android App! We are on our way to controlling our Mech Kit with a Bluetooth App.

Since our app is not in the Google Play store, we are an “unknown developer”. You need to allow unknown apps to be installed on your device. Navigate to the settings > security to allow unknown sources:



Once you have everything setup on your Android device, navigate to the Mechanical Functional Kit Page to download the OSEPP app (.apk file) at :

https://osepp.com/robotic-kits/7-robotic-functional-kit

Screw M3 Set	1
Nut M3 Set	1
Mini USB Cable	1

Downloads

TB6612 Driver Schematic	
Bluetooth App (Pairs to HC-06)	

Stock Code	Product Name
MECHF-01	*Robotic Functional Kit*

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NOTE: The App we have developed supports **Android 5.1.1 (API level 22) and above.

Some Android users can open our APK file without any issues. If you do run into issues, we suggest downloading the .apk install program, “installer” (or a range of other apps that do the same thing):

Installer - Install APK

Rhythm Software

Everyone

UNINSTALL OPEN

1 MILLION Downloads

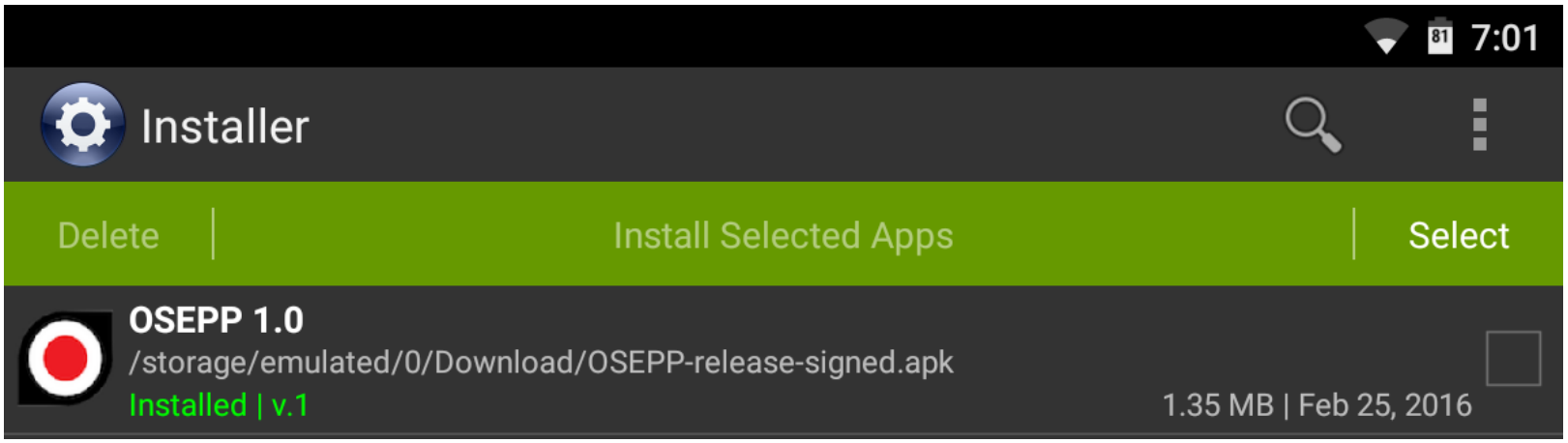
4.0 ★★★★ 11,417

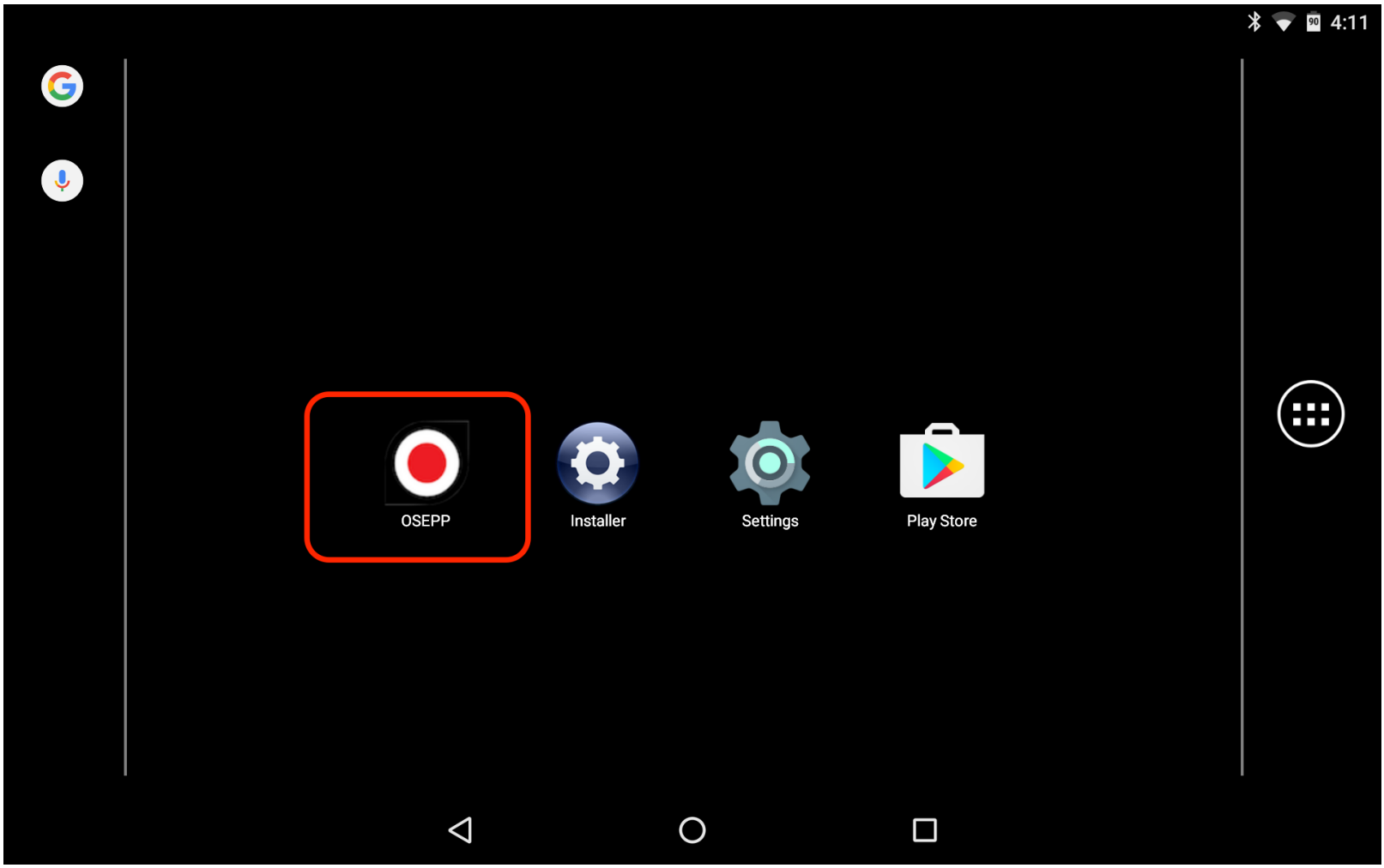
Productivity

Similar

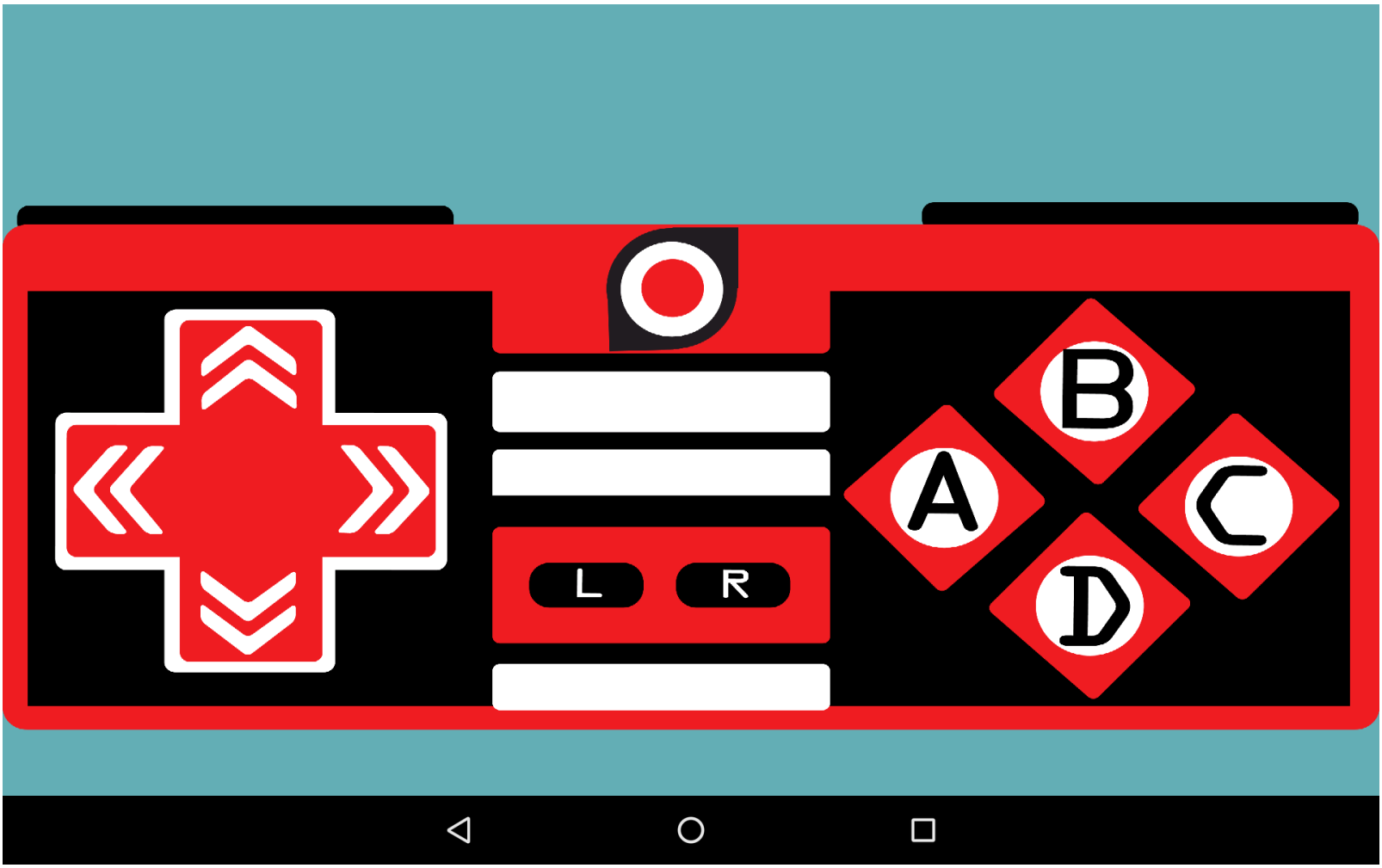
Tiny and full featured installer, easily manage APK files on your device!

Open the App and select our OSEPP.apk App to install :





After install, Open our App. It will present you with a screen to select which bluetooth device you want to pair with. Select “HC-06”.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R
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A
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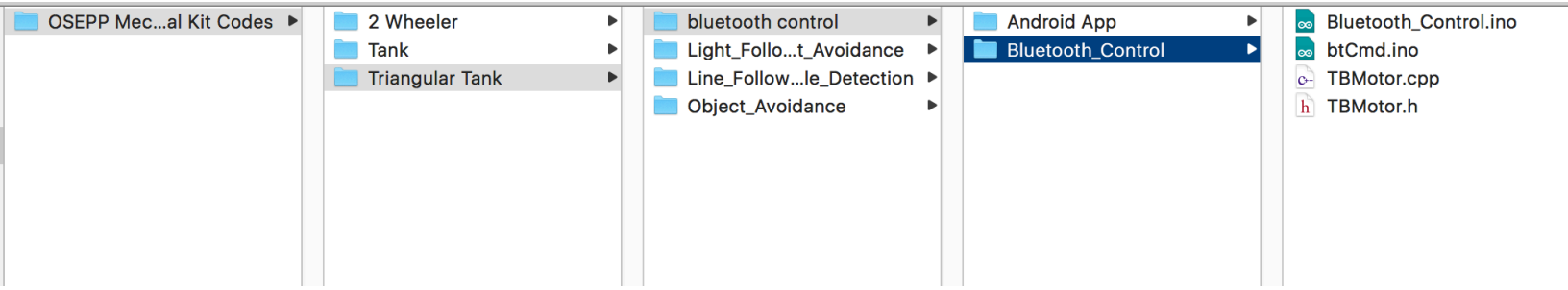
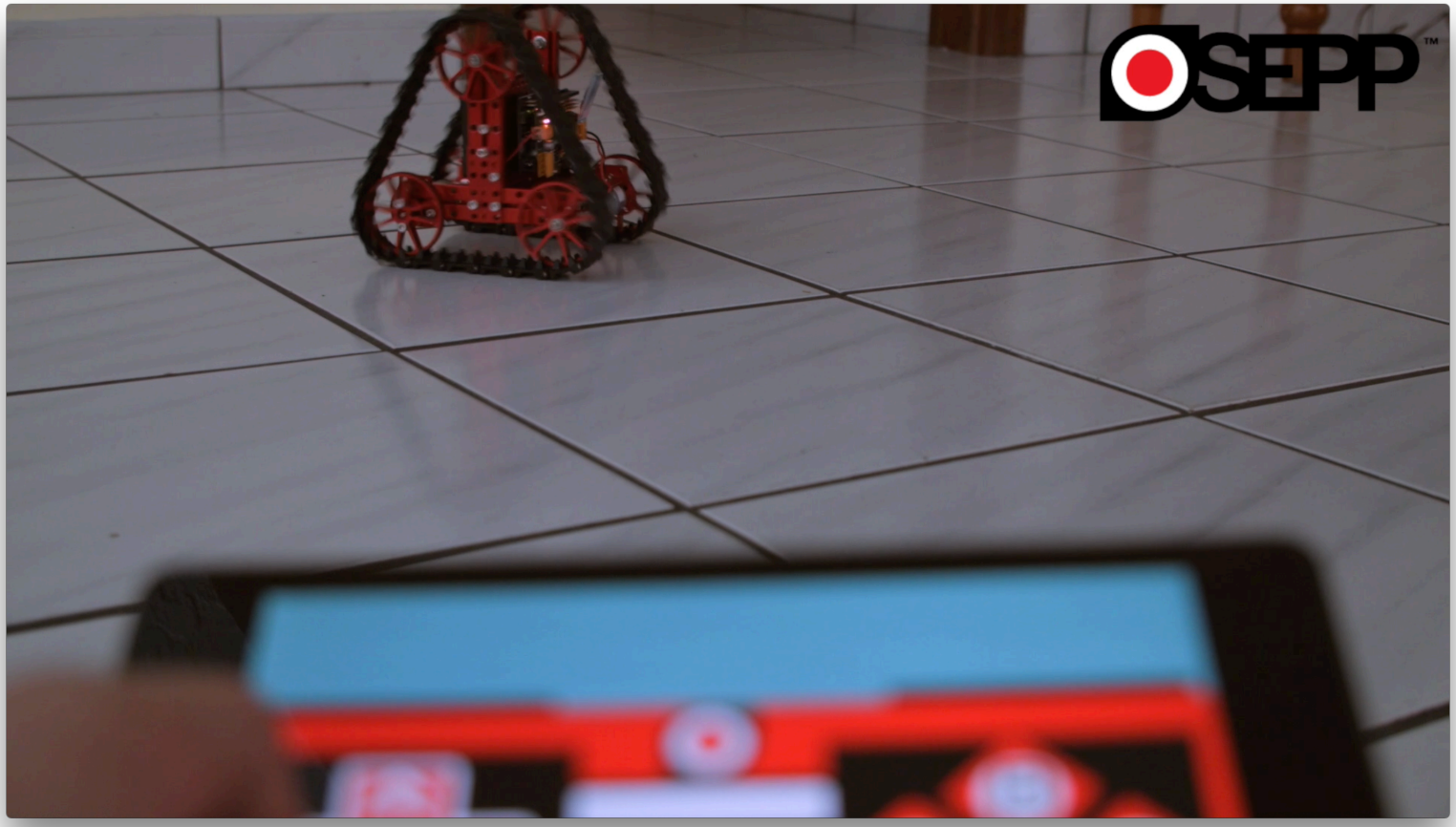
D

Congrats ! you have launched the BT app! We have an issue though… we need to upload the appropriate code to our Arduino Uno board. go to your appropriate Mechanical Kits product page and download the sample code.



After you have uploaded the code, quit the Android app and relaunch. You will now be able to control any of our Mechanical Kits with the BT module from our MECHF-01 kit!