Platformio

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Contents

Abstract—**This manual is a guide to get started with the Arduino UNO on a Raspberry Pi running on the Raspbian OS. The instructions should work for any Debain/Ubuntu system.**

1 Software Installation

1. From the sources.

```
sudo apt-get update
sudo apt-get install platformio
sudo usermod -a -G dialout $USER
```

Immediately logout and login.

2 Platformio

1. Connect the Arduino to the computer.
2. Download the following directory

```
svn co https://github.com/gadepall/arduino/trunk
     /ide/piosetup/codes
cd codes
pio run
pio run -t nobuild -t upload
```

3. The LED beside pin 13 will start blinking.

3 Arduino Droid

1. On your android device, install apkpure from

```
https://m.apkpure.com/
```

2. Install ArduinoDroid from apkpure
3. Open ArduinoDroid and grant all permissions
4. You may write programs in ArduinoDroid or use it to flash the .bin file generated using platformio.
5. For flashing the bin files,

```
Actions->Upload->Upload Precompiled
```

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then go to your working directory and select

```
.pio/build/uno/firmware.hex
```

for uploading .hex file to the Arduino Uno.