

Platformio

G V V Sharma*

CONTENTS

1	Software Installation	1
2	Platformio	1

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.

Actions->Upload->Upload Precompiled

then go to your working directory and select

.pio/build/uno/firmware.hex

for uploading .hex file to the Arduino Uno.

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,

*The author is with the Department of Electrical Engineering, Indian Institute of Technology, Hyderabad 502285 India e-mail: gadepall@iith.ac.in. All content in this manual is released under GNU GPL. Free and open source.