# Howto program the arduino command board ?

Author : J-M Routoure 19/01/2017.

The arduino pro mini board is used for the command board of the hope and bike project . You should have install the arduino IDE.   You should have a programmer dedicated to this card.

The steps to install the firmware are :

- download the complete files in the GitHub repository of the project. https://github.com/fablabDome/hope-bike (Button « Clone and download » and « download zip »)
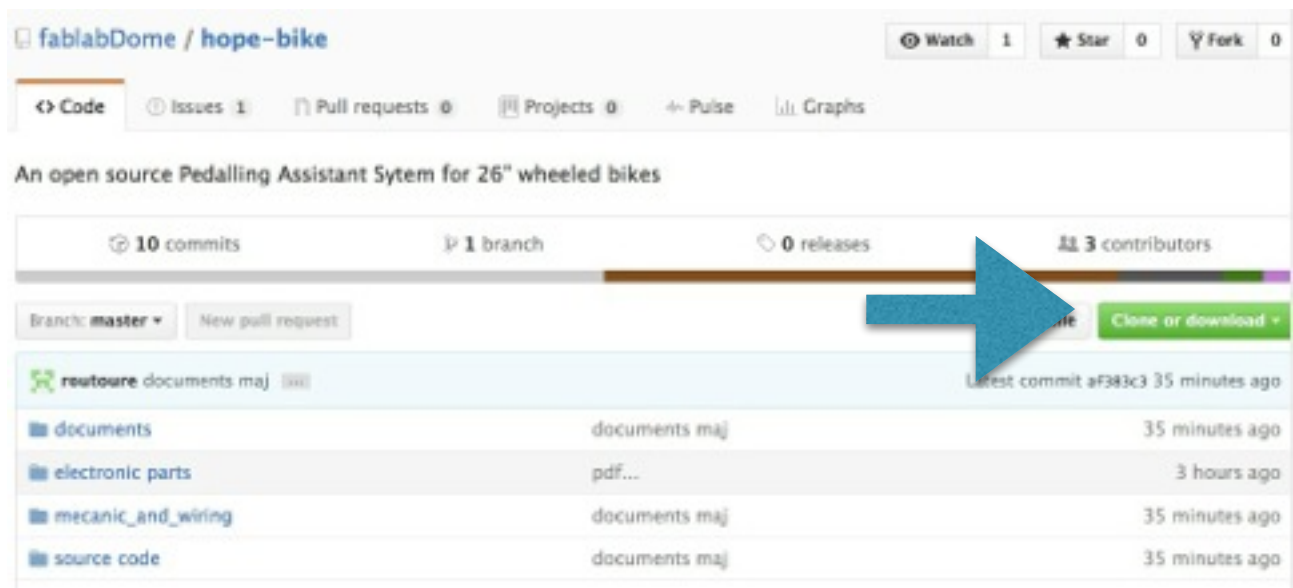
- in the arduino IDE, open the hnb_drive_xxx project (with xxx the number version) located in the source_code/command_card/ directory. You should obtain something like this :

- on the command board, you have to desolder the device named D1 shown in the figure below, you need to desolder only one side of the device and lift it a little bit as shown in the second photo :
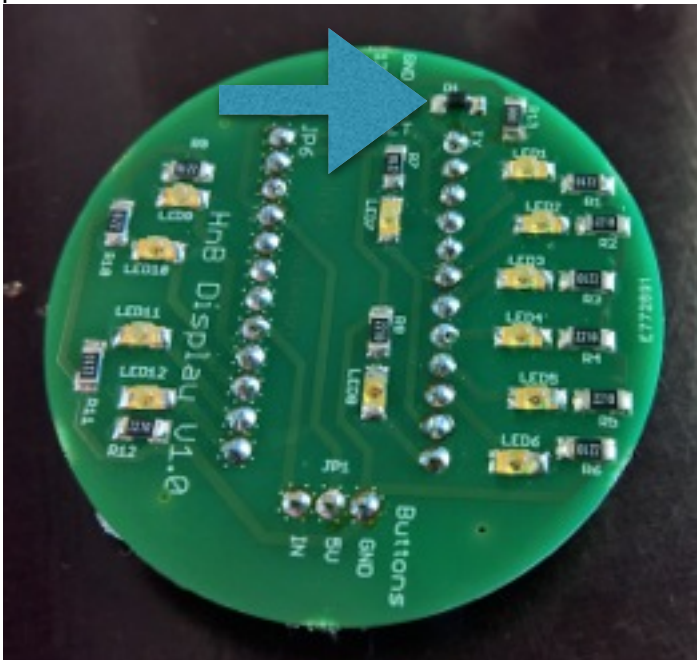
: D1 before unsoldering
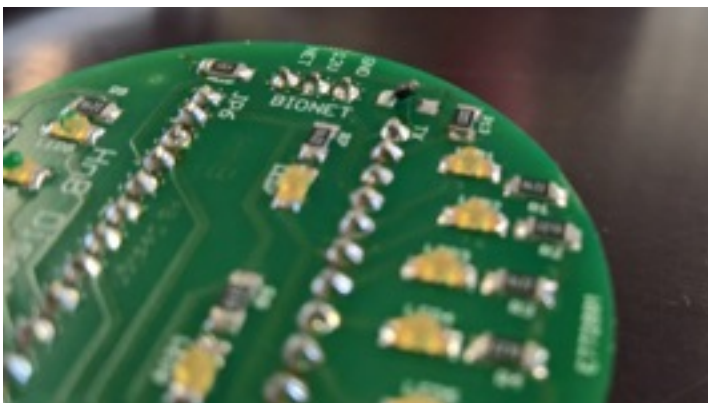
: one pin of D1 has been unsoldered and lift

- connect the arduino programmer in the arduino board

- select the kind of arduino board (« arduino pro or pro mini »)and the usb port where the programmer is connected :
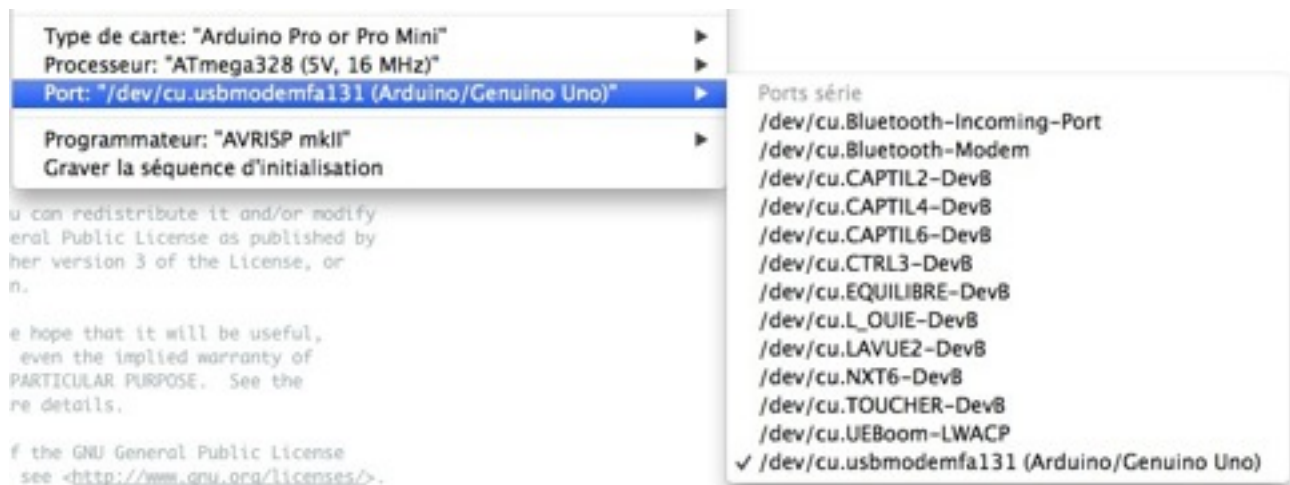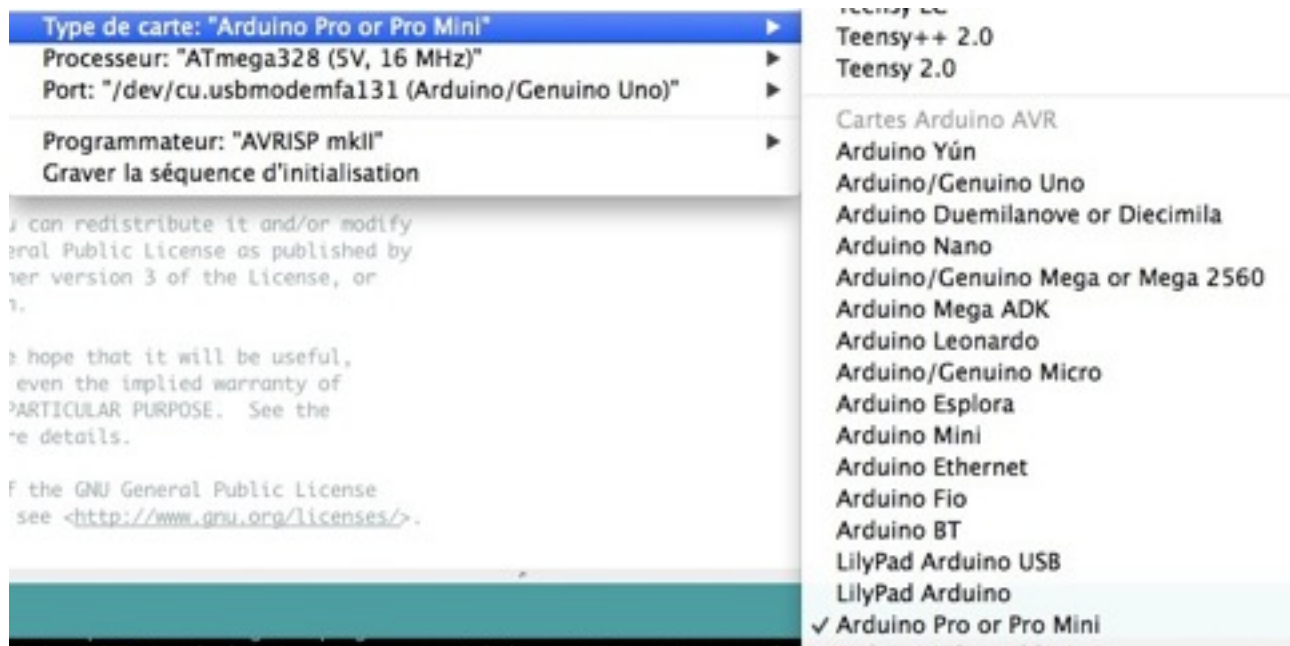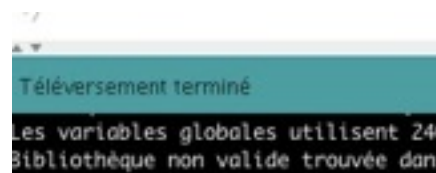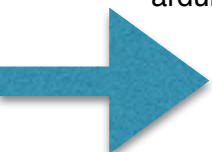
Type de carte: "Arduino Pro or Pro Mini"	▶
Processeur: "ATmega328 (5V, 16 MHz)"	▶
Port: "/dev/cu.usbmodemfa131 (Arduino/Genuino Uno)"	▶
Programmateur: "AVRISP mkII"	▶
Graver la séquence d'initialisation	

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Teensy++ 2.0
Teensy 2.0

Cartes Arduino AVR
Arduino Yún
Arduino/Genuino Uno
Arduino Duemilanove or Diecimila
Arduino Nano
Arduino/Genuino Mega or Mega 2560
Arduino Mega ADK
Arduino Leonardo
Arduino/Genuino Micro
Arduino Esplora
Arduino Mini
Arduino Ethernet
Arduino Fio
Arduino BT
LilyPad Arduino USB
LilyPad Arduino
✓ Arduino Pro or Pro Mini
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Graver la séquence d'initialisation	

```
Ports série
/dev/cu.Bluetooth-Incoming-Port
/dev/cu.Bluetooth-Modem
/dev/cu.CAPTIL2-DevB
/dev/cu.CAPTIL4-DevB
/dev/cu.CAPTIL6-DevB
/dev/cu.CTRL3-DevB
/dev/cu.EQUILIBRE-DevB
/dev/cu.L_OUIE-DevB
/dev/cu.LAVUE2-DevB
/dev/cu.NXT6-DevB
/dev/cu.TOUCHER-DevB
/dev/cu.UEBoom-LWACP
✓ /dev/cu.usbmodemfa131 (Arduino/Genuino Uno)
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- compile the source files and download it to the arduino board by clicking on the arrow in the IDE arduino. If everything goes well, you should read « download complete» in the arduino IDE.

hnb_drive_0.99   hnb_keyboard   hnb_leds

hnb_drive.ino : master drive
Copyright (C) 2015-2016 François TROQU

hnb_drive_beta.ino : beta testing versi
Version 0.99 BY JNR

Téléversement terminé

Les variables globales utilisent 246
Bibliothèque non valide trouvée dans

- finally, Re-solder the D1 diode.