

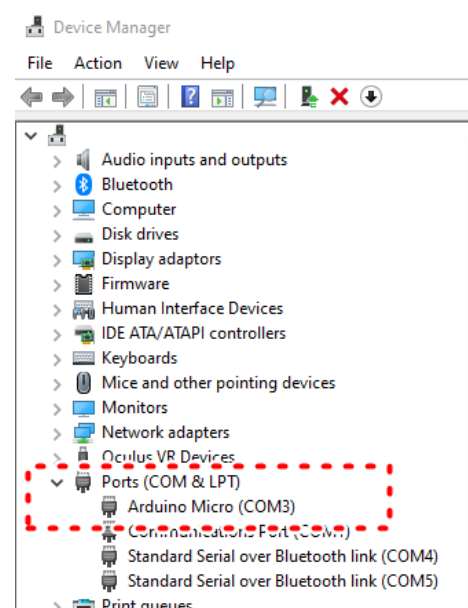
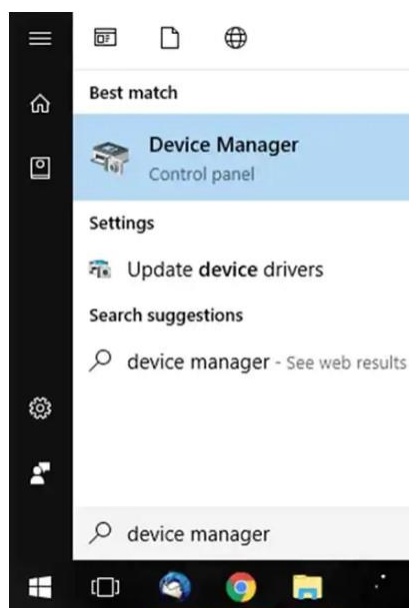
Pitta Firmware Uploader

Uploader4Pitta is a firmware update tool for PITTA Base.

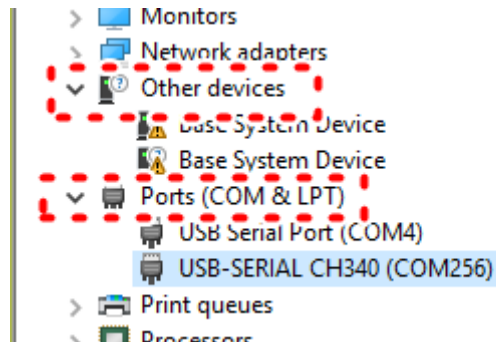
1. Copy the Uploader folder to any directory on your PC
2. Disconnecting the communication cable with the 3D printer
3. Power on the Pitta base
4. Connect PC and Pitta base with USB serial cable



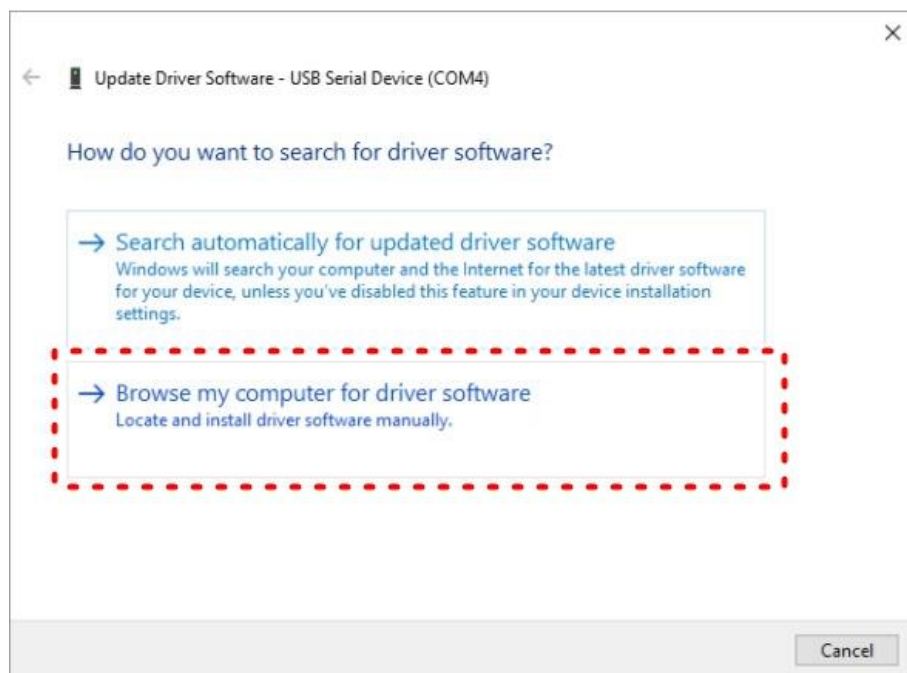
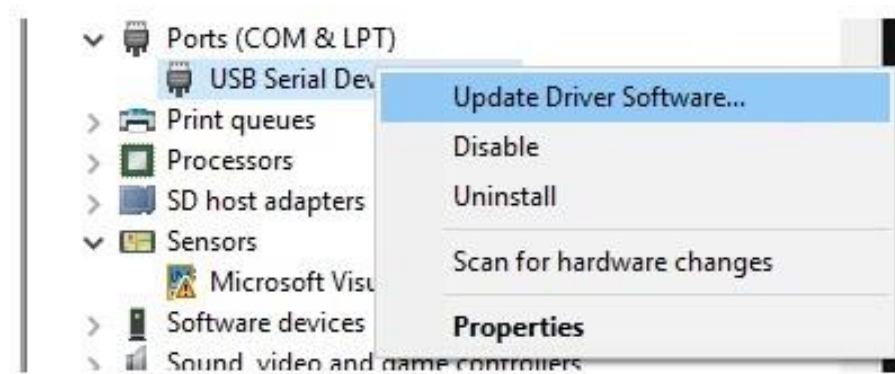
- Run Windows Device Manager to check whether Arduino driver is installed



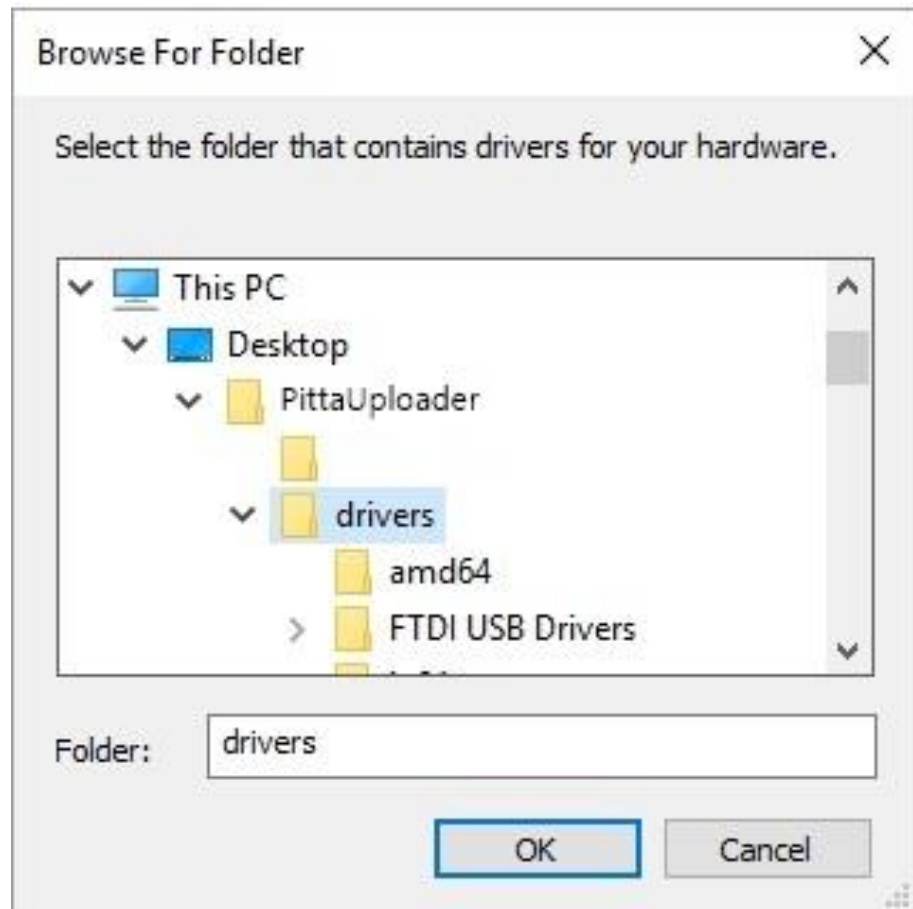
- If the Arduino Driver is not installed and it is recognized as a different name in Other devices or Ports, you need to install the driver manually.



- In the Device Manager, mouse right-click the COM port that was identified as the Arduino (the Arduino must be plugged into the computer first). Select Update Driver Software... from the menu that pops up.



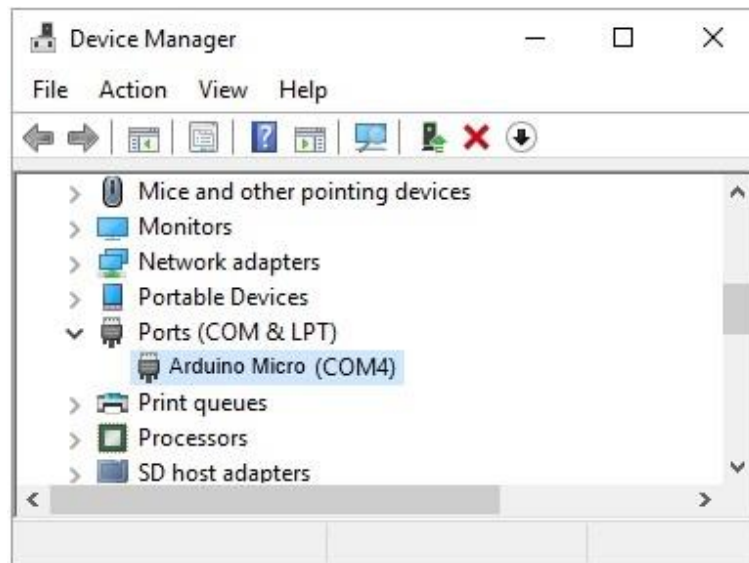
- Find the drivers folder. This folder is located in PittaUploader was saved.



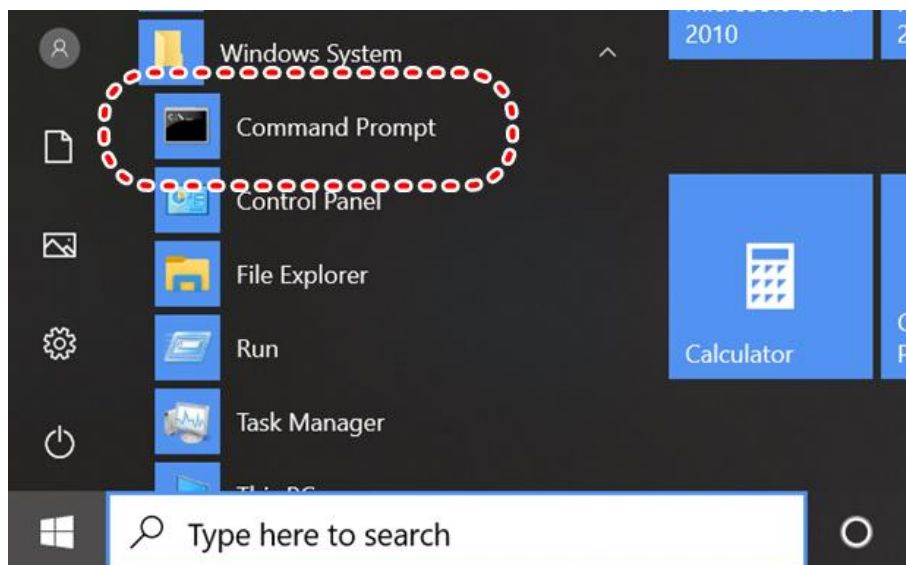
- In the Windows Security dialog box that pops up, click Install



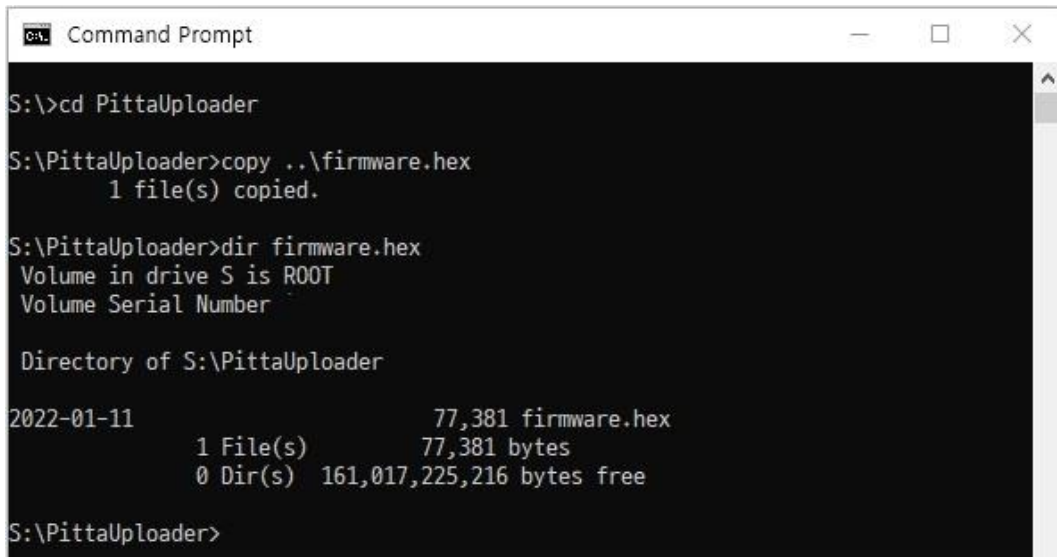
- Finally go back to Device Manager and check that the COM port is now identified as Arduino Micro.



5. Open Windows Command Prompt at your PC



6. Change directory to uploader folder
7. Copy firmware.hex file to uploader folder



```
Command Prompt

S:\>cd PittaUploader

S:\PittaUploader>copy ..\firmware.hex
        1 file(s) copied.

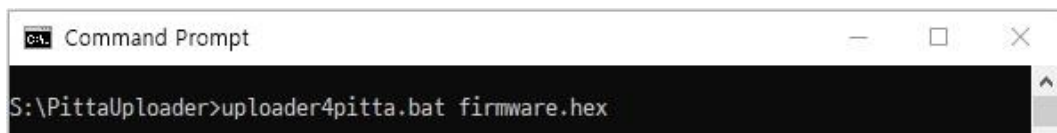
S:\PittaUploader>dir firmware.hex
Volume in drive S is ROOT
Volume Serial Number

Directory of S:\PittaUploader

2022-01-11                77,381 firmware.hex
               1 File(s)        77,381 bytes
               0 Dir(s)  161,017,225,216 bytes free

S:\PittaUploader>
```

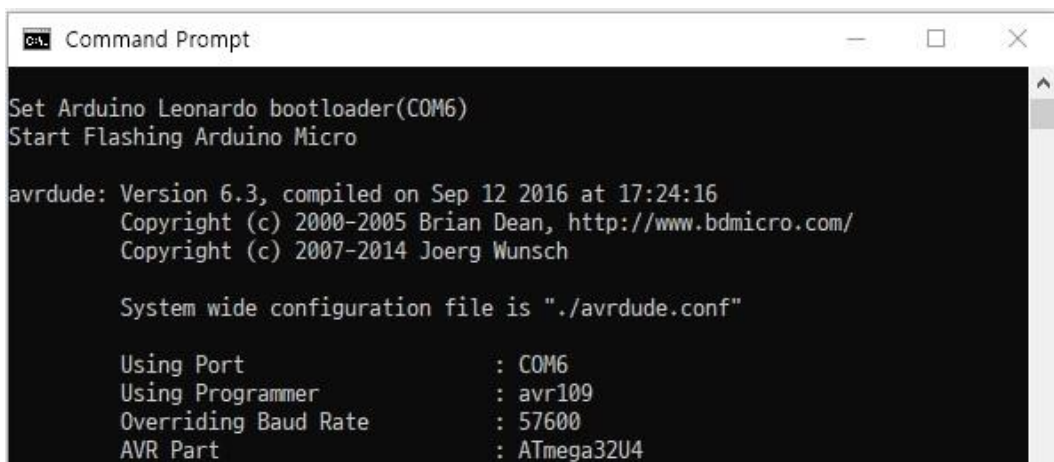
8. Run "uploader4pitta.bat firmware.hex" at Command Prompt



```
Command Prompt

S:\PittaUploader>uploader4pitta.bat firmware.hex
```

9. Upload progress displayed in the command prompt window
- Detect Pitta's COM port detect
 - Reset Pitta MCU
 - Detect Bootloader's COM Port



```
Command Prompt

Set Arduino Leonardo bootloader(COM6)
Start Flashing Arduino Micro

avrdude: Version 6.3, compiled on Sep 12 2016 at 17:24:16
        Copyright (c) 2000-2005 Brian Dean, http://www.bdmicro.com/
        Copyright (c) 2007-2014 Joerg Wunsch

        System wide configuration file is ".\avrdude.conf"

        Using Port                : COM6
        Using Programmer           : avr109
        Overriding Baud Rate       : 57600
        AVR Part                   : ATmega32U4
```

- Upload firmware.hex file (Read -> Writing -> Verifying) to Pitta Base

```
Command Prompt
Software Version = 1.0; No Hardware Version given.
Programmer supports auto addr increment.
Programmer supports buffered memory access with buffersize=128 bytes.

Programmer supports the following devices:
Device code: 0x44

avrdude: devcode selected: 0x44
avrdude: AVR device initialized and ready to accept instructions

Reading | ##### | 100% 0.00s

avrdude: Device signature = 0x1e9587 (probably m32u4)
avrdude: safemode: hfuse reads as D8
avrdude: safemode: efuse reads as CB
avrdude: reading input file "firmware.hex"
avrdude: writing flash (27504 bytes):

Writing | ##### | 100% 2.37s

avrdude: 27504 bytes of flash written
avrdude: verifying flash memory against firmware.hex:
avrdude: load data flash data from input file firmware.hex:
avrdude: input file firmware.hex contains 27504 bytes
avrdude: reading on-chip flash data:

Reading | ##### | 100% 0.46s

avrdude: verifying ...
avrdude: 27504 bytes of flash verified
```

10. Confirm upload complete

```
Command Prompt
avrdude: safemode: hfuse reads as D8
avrdude: safemode: efuse reads as CB
avrdude: safemode: Fuses OK (E:CB, H:D8, L:FF)

avrdude done. Thank you.
Upgrade Completed!
S:\PittaUploader>
```