**Installation and setup for Windows**

1. Download and install the Arduino IDE from the following link: <https://www.arduino.cc/en/Main/Software>
2. Install the core needed for the Arduino Due. Open the Arduino IDE and click on the Tools menu, then Boards>Boards Manager.
3. From the opened board manager, select the “Arduino SAM Boards (32-bits ARM Cortex-M3) by Arduino” core, choose version 1.6.11 in the drop-down menu and click install.
4. After installing the Arduino IDE and the Arduino Due core support, connect the Arduino Due to your computer using a USB cable via the Native USB port.
5. Click “windows + x”, a list will appear on the left hand side. Click “Device Manager”.
6. Look for the listing named “Ports (COM & LPT)”. Depending on your Windows Software and drivers configuration you will see “Bossa Programming Port” or “Unknown Device” or any other similar thing.
7. Right click on that and choose “Update Driver Software”.
8. Select the “Browse my computer for Driver software” option.
9. Navigate to the folder with the Arduino IDE you downloaded and unzipped earlier. Locate and select the “Drivers” folder in the main Arduino folder (not the “FTDI USB Drivers” sub-directory). Press “OK” and “NEXT” to proceed. (If you are prompted with a warning dialog about not passing Windows Logo testing click “Continue Anyway”.)
10. In the Device Manager, you should now see a port listing similar to “Arduino Due Programming Port (COM4)”. (the COM number will change depending on devices connected to your computer)
11. Now you are ready to upload code to the Due/Haply board. Connect your board to the computer using a USB via the Native Port and open the Arduino IDE if it is not already open.
12. In the Tools menu tab, choose “Port” and select the serial port of the DUE. (COM4(Arduino Due(Native USB Port)))
13. Again in the Tools menu tab, choose “Boards” and select “Arduino Due (Native USB Port)”.
14. After setting up for Arduino, download Processing from the link below: <https://processing.org/download/>
15. To upload the code onto the board, you need to download the libraries needed from the link below: <https://drive.google.com/drive/folders/0Bxt_y6pIhiprQ0ZLX1NuWmlVTTg>
16. Unzip Encoder and PWM
17. Go to Documents > Arduino > libraries, then copy both Encoder and PWM and paste them here
18. Open Haply\_Arduino\_Control.ino in Arduino and verify and upload it to the board.