

Platypus Arduino Firmware Update Guide

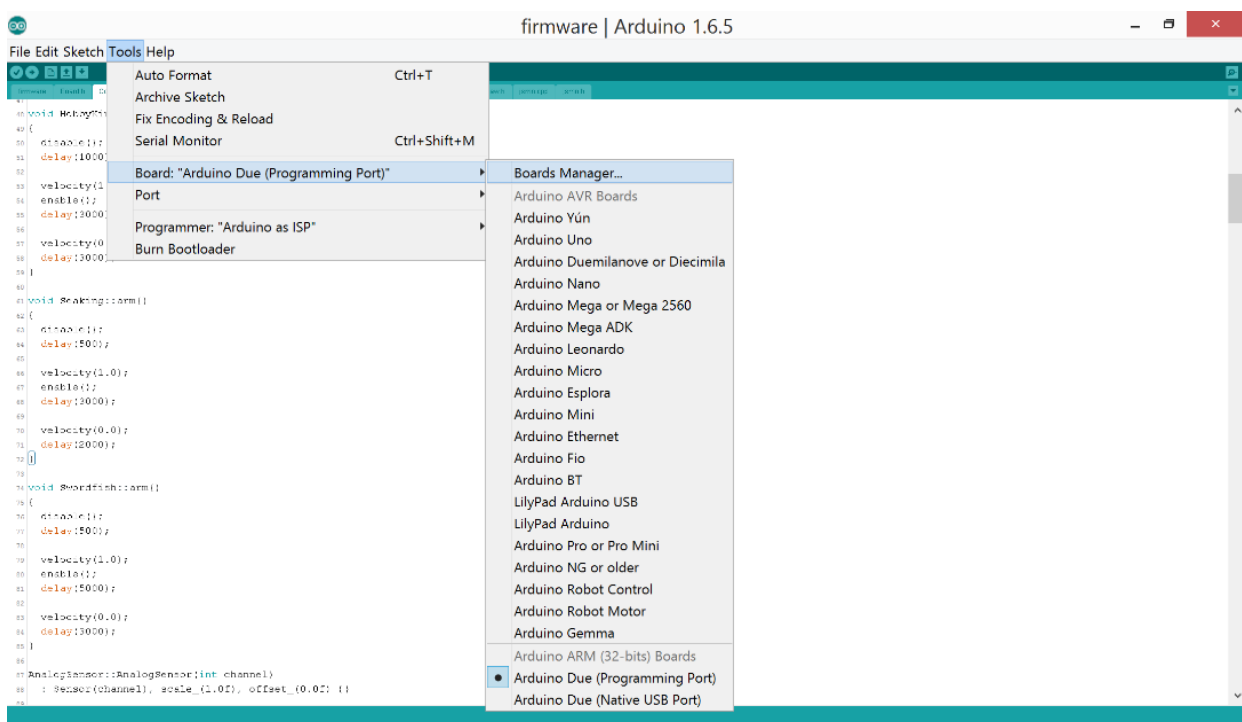
- 1) Download the latest Arduino IDE (currently 1.6.5) available at

<https://www.arduino.cc/en/Main/Software>

You will be redirected to a contribution page asking for monetary donations. You don't need to pay, instead you can click "just download".

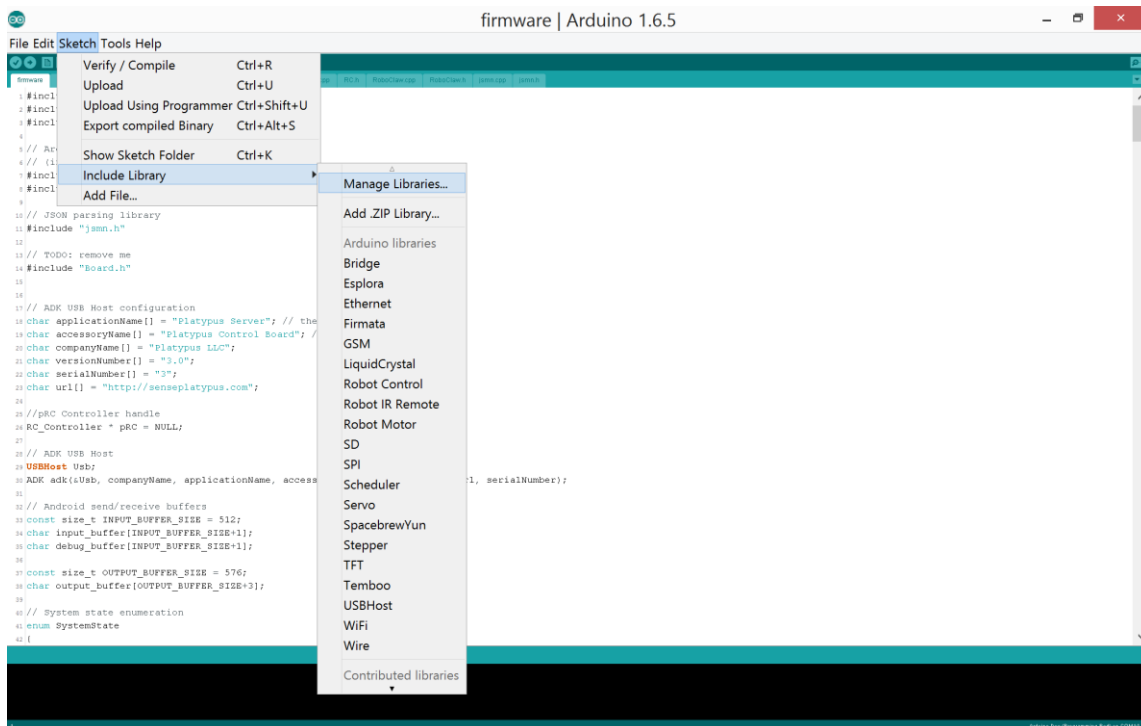
- 2) Run the install following the default settings
- 3) You will need to download a board support package and two additional libraries. This can be done through the Arduino IDE.

In the Arduino IDE navigate to **Tools > Board: "..."** > **Boards Manager...**



- Install the following board support package:
 - **Arduino SAM Boards (32-bits ARM Cortex-M3 by Arduino)**

- Navigate to **Sketch > Include Library > Manage Libraries...**



- Install the following libraries:
 - **Scheduler by Arduino** ([more info](#))
 - **USBHost by Arduino** ([more info](#))

Close the Arduino IDE to allow the changes to take effect.

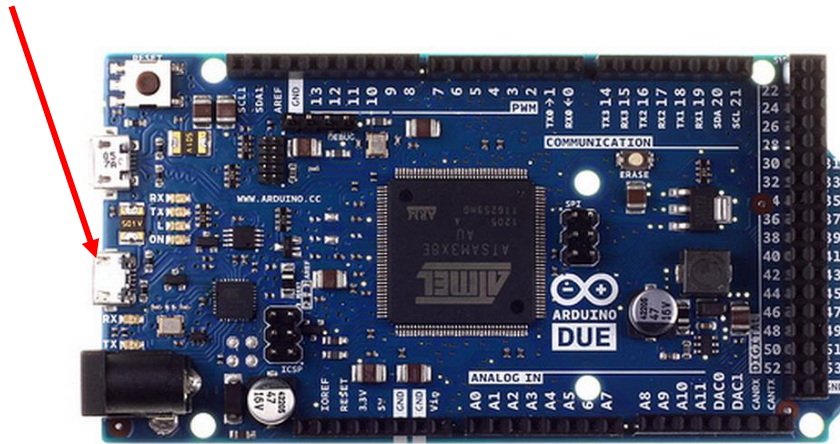
- 4) Download the Lutra repository available at <https://github.com/comeadhra/Lutra>

This will download a zip file which you can unpack to a convenient location

- 5) Open the unpacked file and navigate to the firmware folder. You should see a file called `firmware.ino`. Double click on this and it should open in the Arduino IDE.

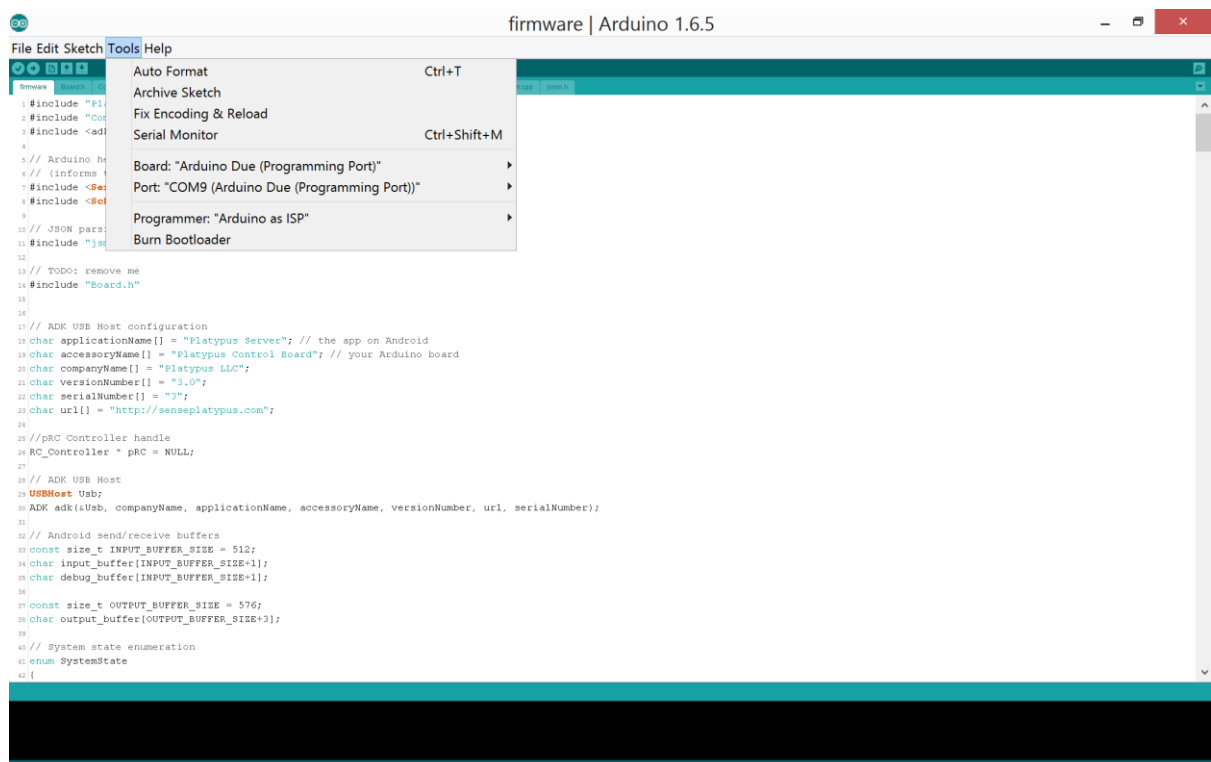
Board.h	23/07/2015 17:19	Header file	2 KB
Components.cpp	26/07/2015 13:52	C++ source file	9 KB
Components.h	23/07/2015 18:07	Header file	3 KB
firmware.ino	27/07/2015 21:37	Arduino file	16 KB
jsmn.cpp	23/07/2015 17:19	C++ source file	7 KB
jsmn.h	23/07/2015 17:19	Header file	2 KB
Platypus.cpp	26/07/2015 13:28	C++ source file	6 KB
Platypus.h	26/07/2015 10:38	Header file	3 KB
RC.cpp	26/07/2015 16:26	C++ source file	7 KB
RC.h	26/07/2015 16:25	Header file	3 KB
RoboClaw.cpp	23/07/2015 17:19	C++ source file	22 KB
RoboClaw.h	23/07/2015 17:19	Header file	8 KB

- 6) Connect to the micro-USB Programming Port on the Arduino DUE board (the one nearest the black 9V socket).



Select **Tools > Board: "..."** > **Arduino Due (Programming Port)**

Select **Tools > Port > "..."** (Arduino Due (Programming Port))



1. Press the **Upload** button (right-arrow icon)