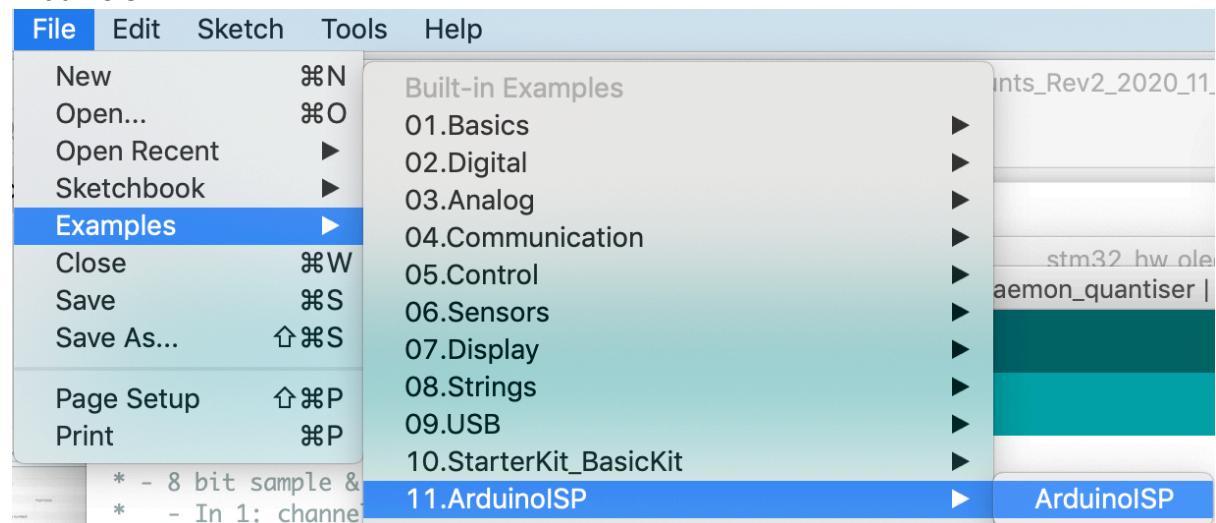


Uploading sketches to 'Daemon' / ATTiny based ASCII modules

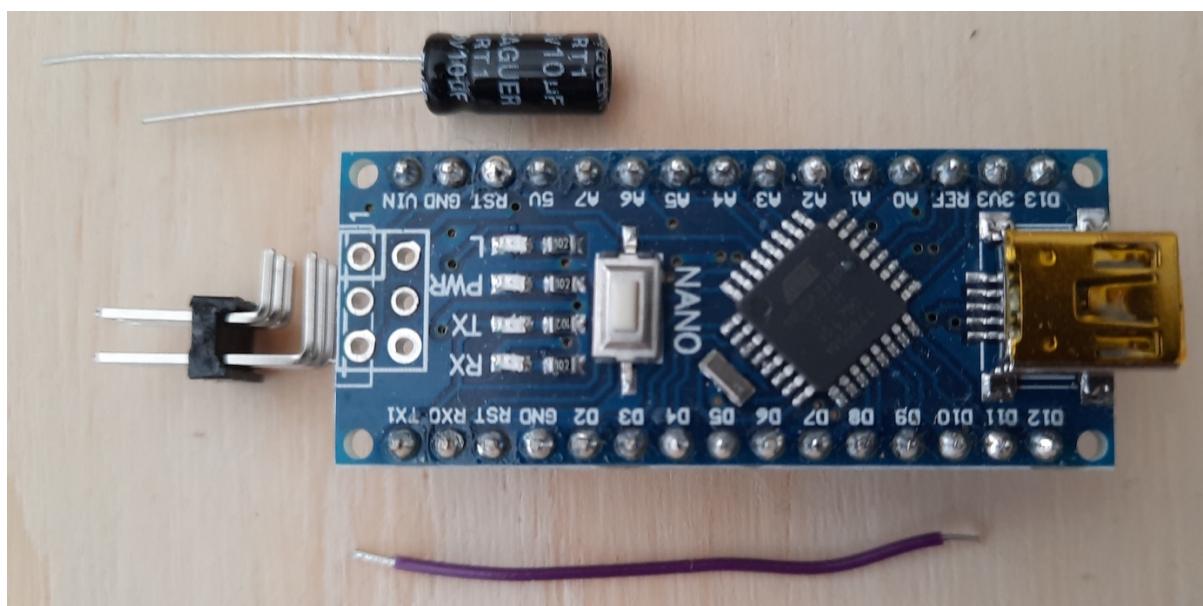
A) How to make an ICSP programmer from an Arduino Nano

1) Before modifying the Nano, upload the ArduinoISP sketch, which is in Examples -> ArduinoISP



2) Parts required:

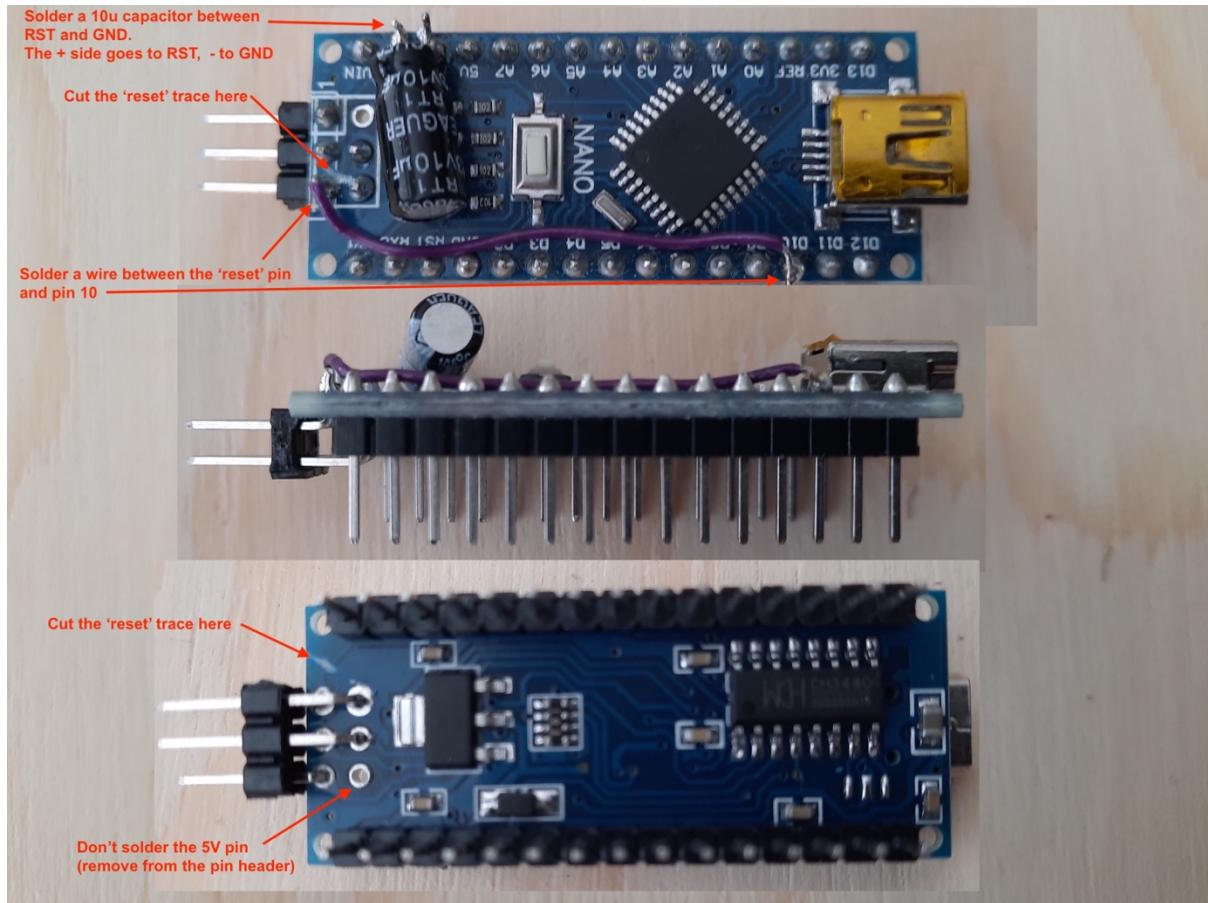
- 10uF capacitor
- 2x3 right angled pin header
- Short length of wire



3) Cut traces and solder components:

- Cut the top and bottom traces leading to the RST pin (pin 5) of the ICSP header
- Remove pin 2 from the right angled pin header
- Solder the right angled header underneath the Nano, facing outwards
- Solder a wire between the RST pin (pin 5) of the ICSP header, and pin 10 of the Nano
- Bend the capacitor legs down. Solder the '+' leg to the RST pin, and '-' to GND

The 1x15 pin headers soldered under the board aren't needed, they were already soldered to this board before I converted it for ICSP



B) Uploading sketches to the module

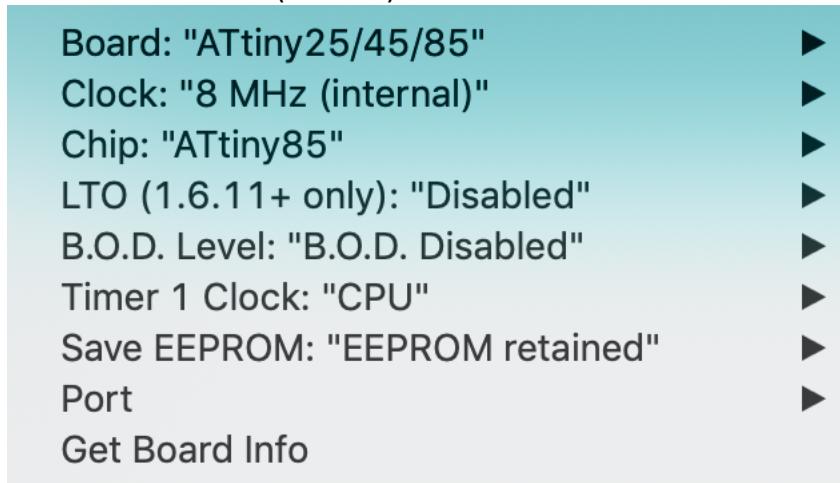
1) Download the ATTinyCore files from [https://github.com/SpenceKonde/ATTinyCore/](https://github.com/SpenceKonde/ATTinyCore)

The screenshot shows the GitHub repository page for 'SpenceKonde / ATTinyCore'. At the top, there are navigation icons for back, forward, and refresh, followed by a lock icon and the URL 'github.com/SpenceKonde/ATTinyCore/'. Below the header is a search bar with the placeholder 'Search or jump to...'. To the right of the search bar is a '/' icon. Further to the right are 'Pull requests' and a profile picture of a cat. The main title of the repository is 'SpenceKonde / ATTinyCore' with a blue link icon. The repository has 1 star, 0 forks, and 0 issues.

2) Unzip the files and move the folder to your Arduino hardware folder

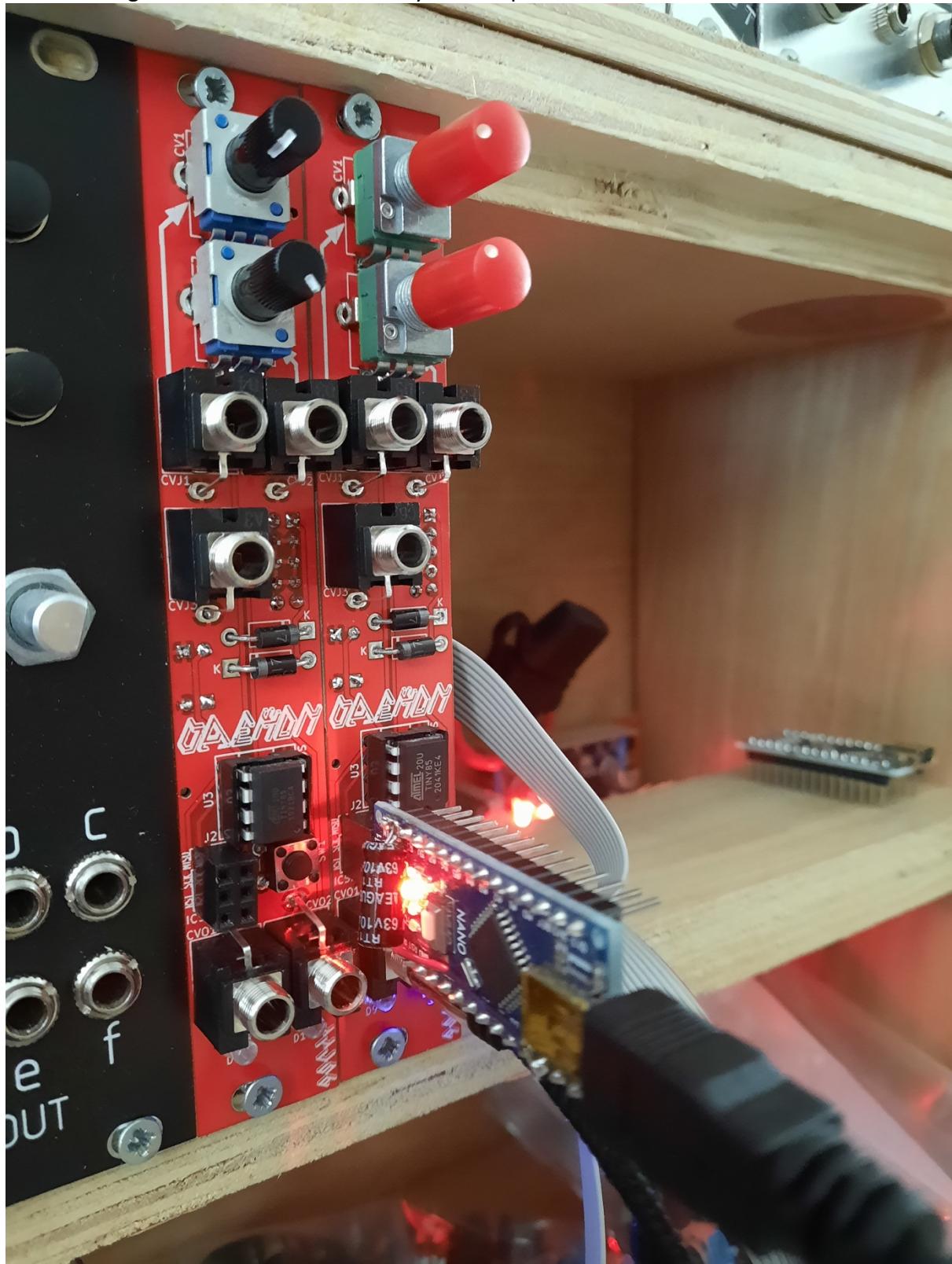


3) Re-open the Arduino IDE. ATTinyCore should be visible in Tools -> Board. Select ATTiny25/45/85. Arduino will take a moment to refresh your choice of board. Open the Tools menu again and check that the settings match these. Especially make sure that the Clock is set to 8MHz (internal).



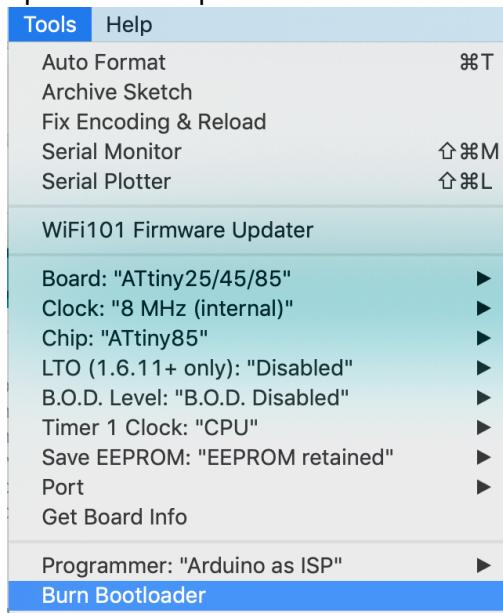
4) Choose Tools -> Programmer -> Arduino as ISP

5) Turn on your Eurorack Power. **Remove all patch cables from the module inputs and outputs.** With pin 1 at the top, plug the Nano's ICSP header into the 2x3 socket on the module. Plug the Nano's USB cable into your computer.



6) This step is only necessary if you're using a new ATTiny chip that you bought yourself. Otherwise skip to step 7.

With the Arduino plugged in to the module, choose Burn Bootloader and wait until this operation completes.



7) Open the sketch you want to upload to the module, and click 'Upload' as with a normal Arduino sketch. The LEDs on the module outputs will flash as the sketch is uploaded.

