



HOW 2 Load and Build Pd Patches into LICH

*Tutorial by Xavi Manzanares
by-sa // 2021*

*LICH Module by ://
Befaco & Rebel Technologies*

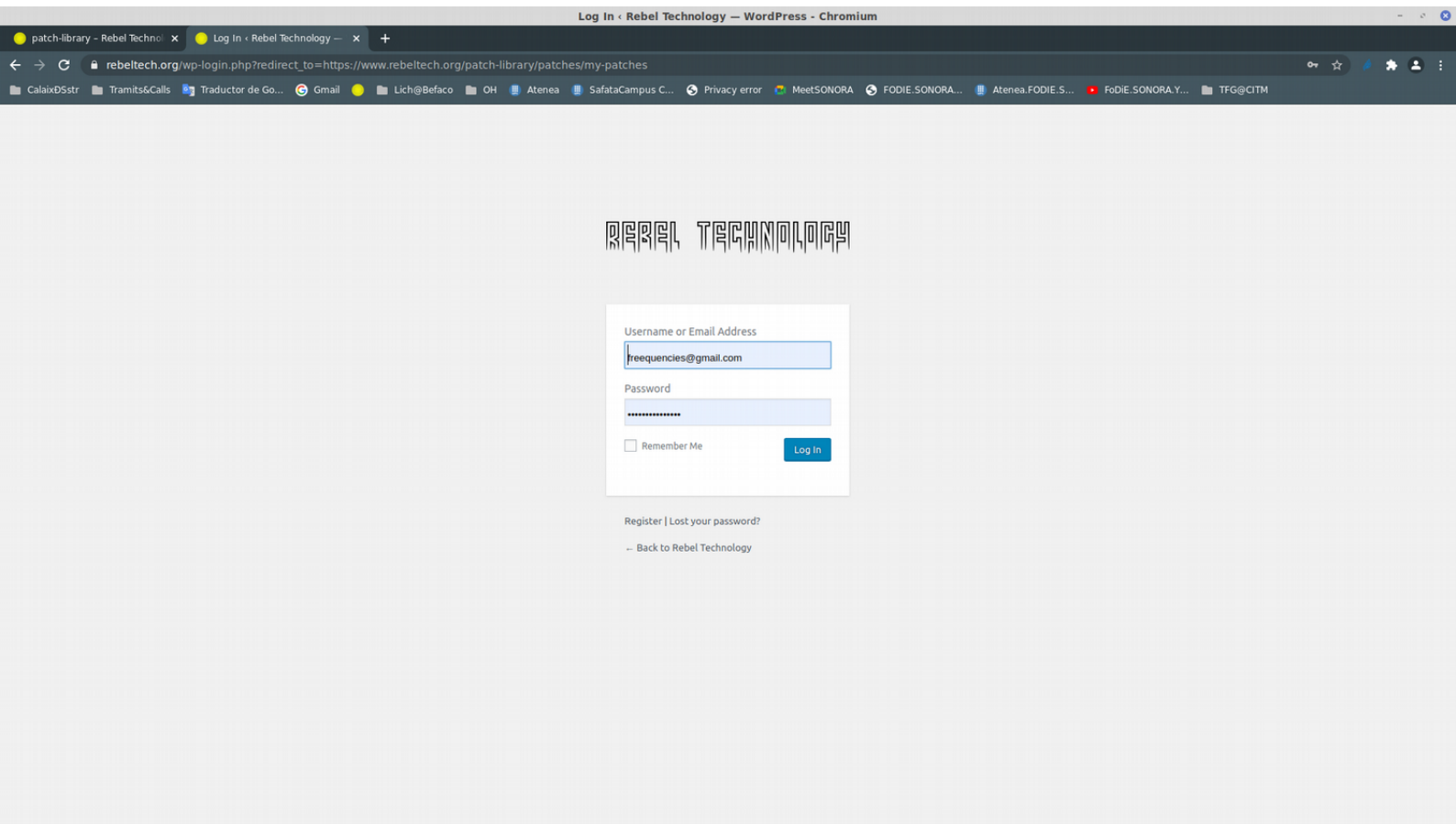
PD
FOR
LICH
pd~



HOW 2 Load and Build Pd Patches into LICH Firmware

Enter at <https://www.rebeltech.org/patch-library/patches/latest>

Will ask you for your login in order to contribute to the public repos and developments for Lich.



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rebeltech.org/wp-login.php?redirect_to=https://www.rebeltech.org/patch-library/patches/my-patches

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REBEL TECHNOLOGY

Username or Email Address

frequencies@gmail.com

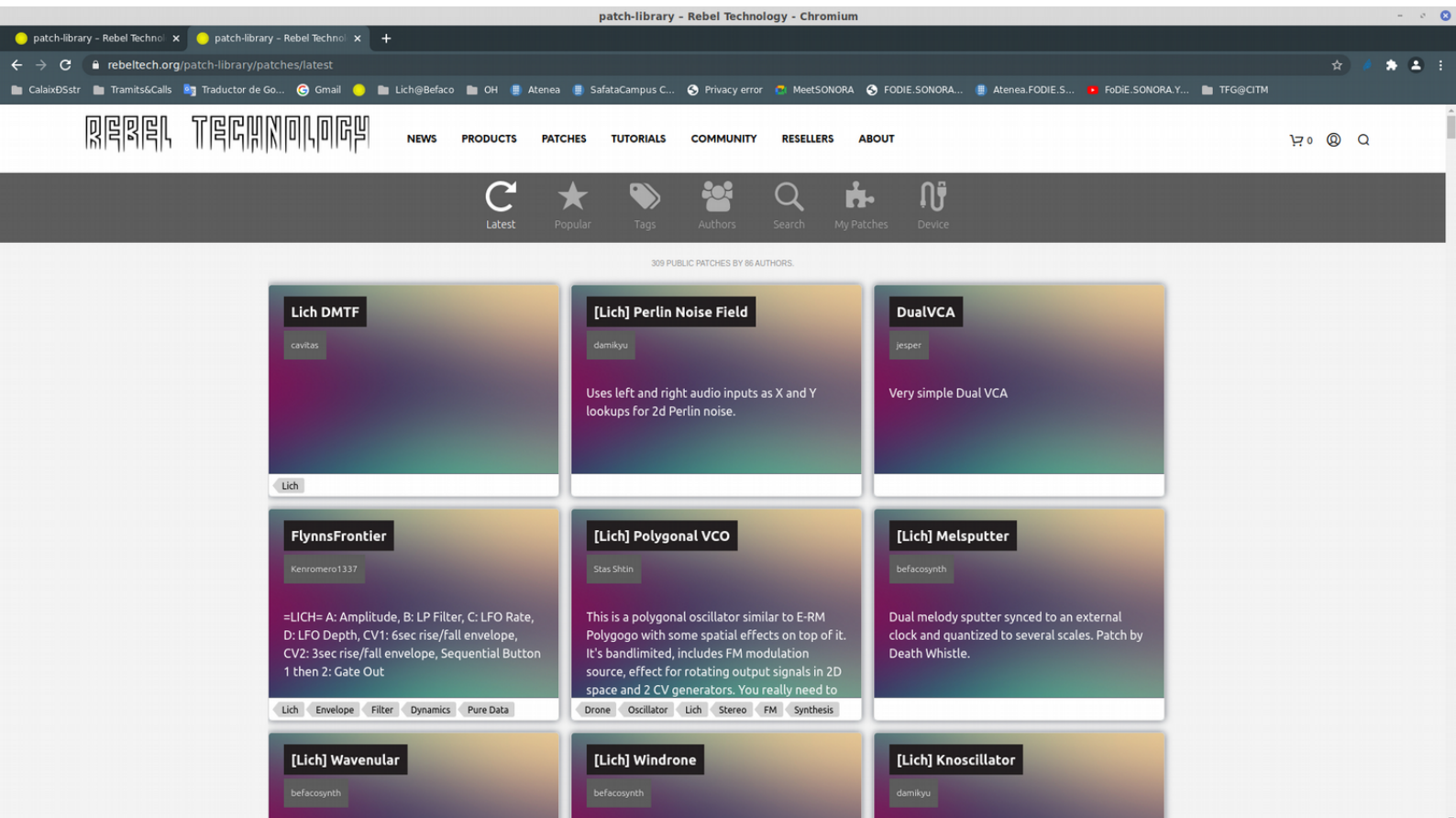
Password

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Once registered you'll enter into this interface showing the last developments done by the community.



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309 PUBLIC PATCHES BY 86 AUTHORS.

Lich DMTF
cavitas
Lich

[Lich] Perlin Noise Field
damikyu
Uses left and right audio inputs as X and Y lookups for 2d Perlin noise.

DualVCA
jesper
Very simple Dual VCA

FlynnFrontier
Kenromero1337
=LICH= A: Amplitude, B: LP Filter, C: LFO Rate, D: LFO Depth, CV1: 6sec rise/fall envelope, CV2: 3sec rise/fall envelope, Sequential Button 1 then 2: Gate Out
Lich Envelope Filter Dynamics Pure Data

[Lich] Polygonal VCO
Stas Shlin
This is a polygonal oscillator similar to E-RM Polyogo with some spatial effects on top of it. It's bandlimited, includes FM modulation source, effect for rotating output signals in 2D space and 2 CV generators. You really need to
Drone Oscillator Lich Stereo FM Synthesis

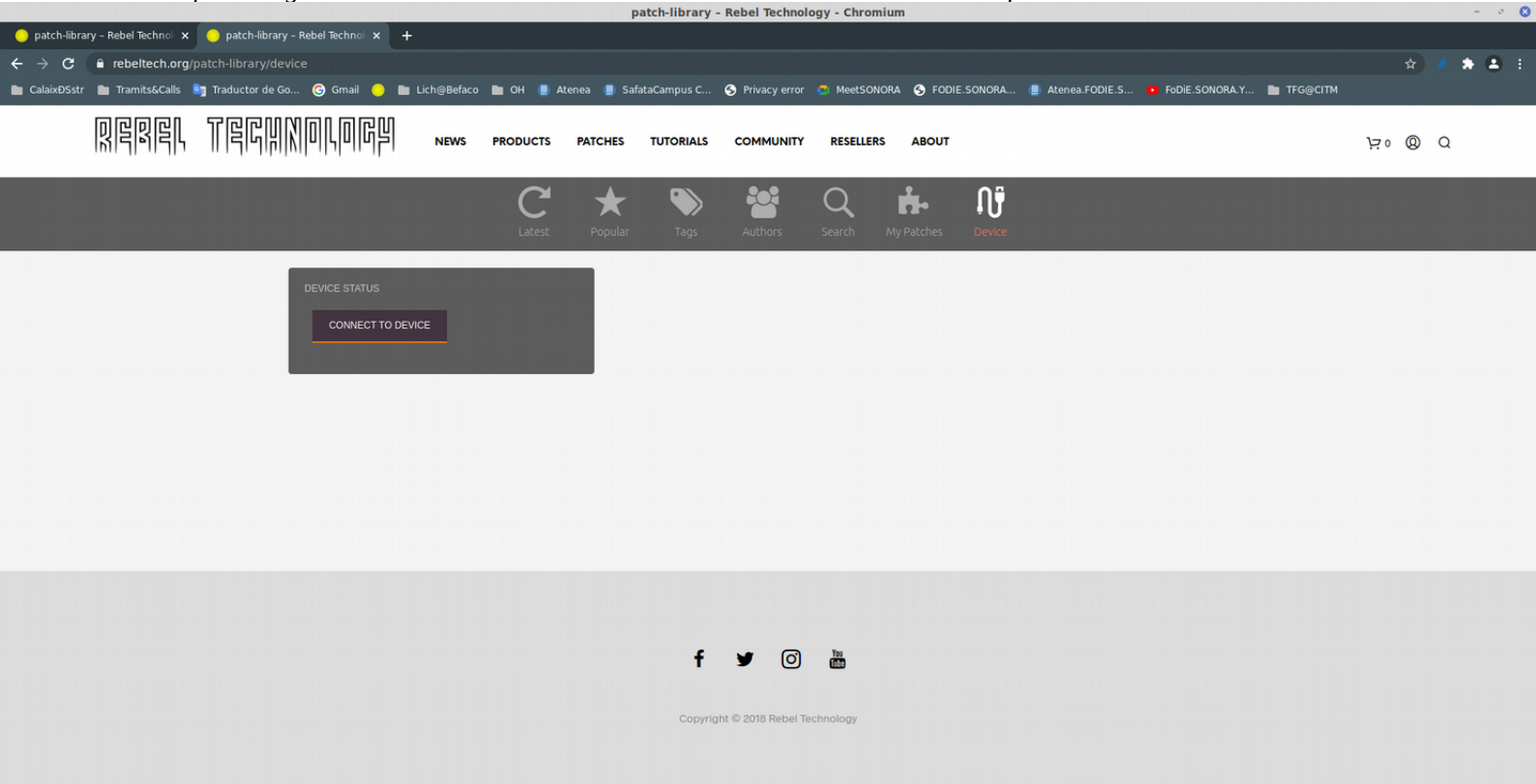
[Lich] Melspitter
befacosynth
Dual melody spitter synced to an external clock and quantized to several scales. Patch by Death Whistle.

[Lich] Wavenuar
befacosynth

[Lich] Windrone
befacosynth

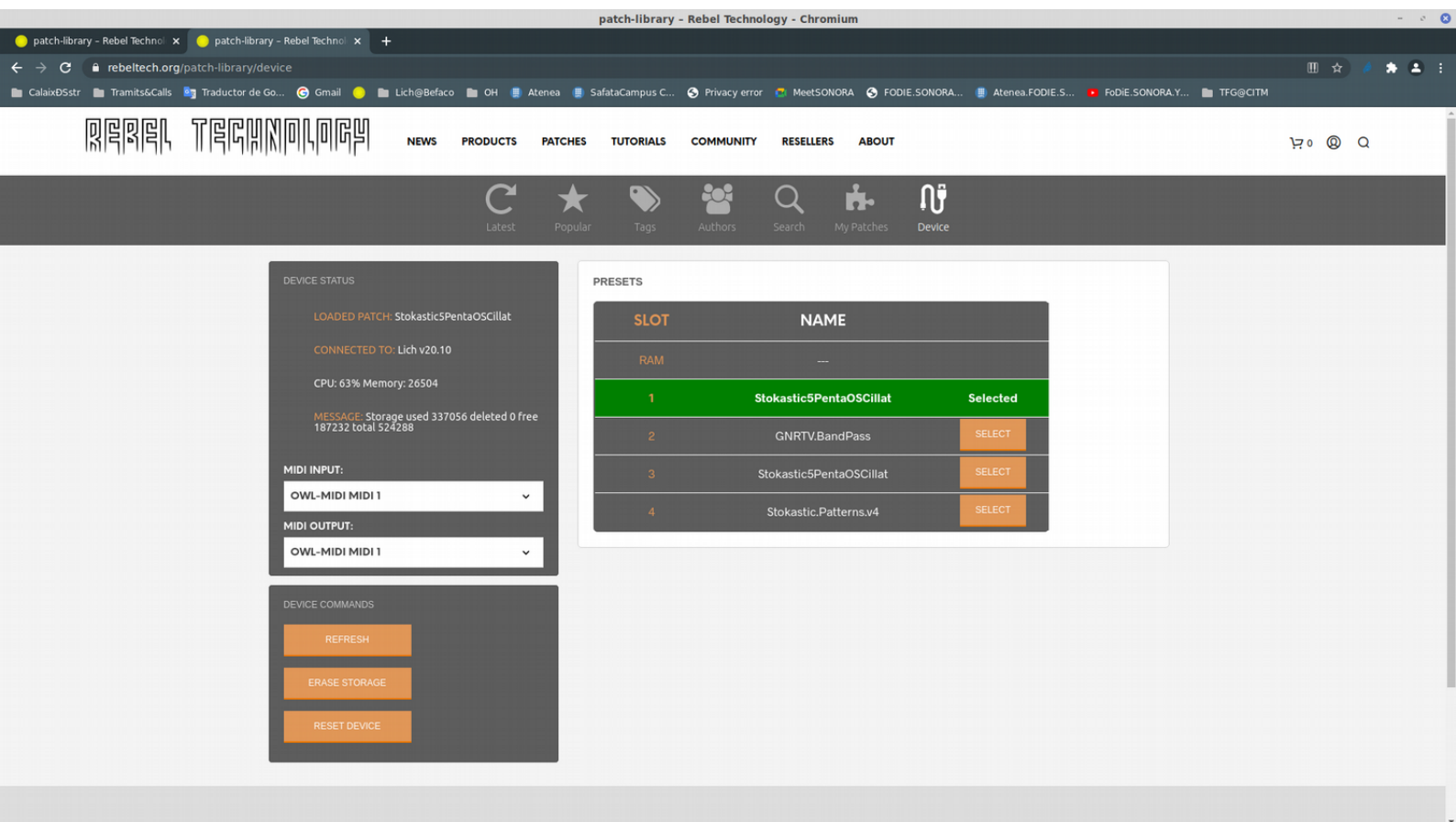
[Lich] Knoscillator
damikyu

Let's imagine we have build a patch in the computer and we want to upload it into the LICH firmware.
The first thing is to turn on the LICH module and connect it via USB to the computer.

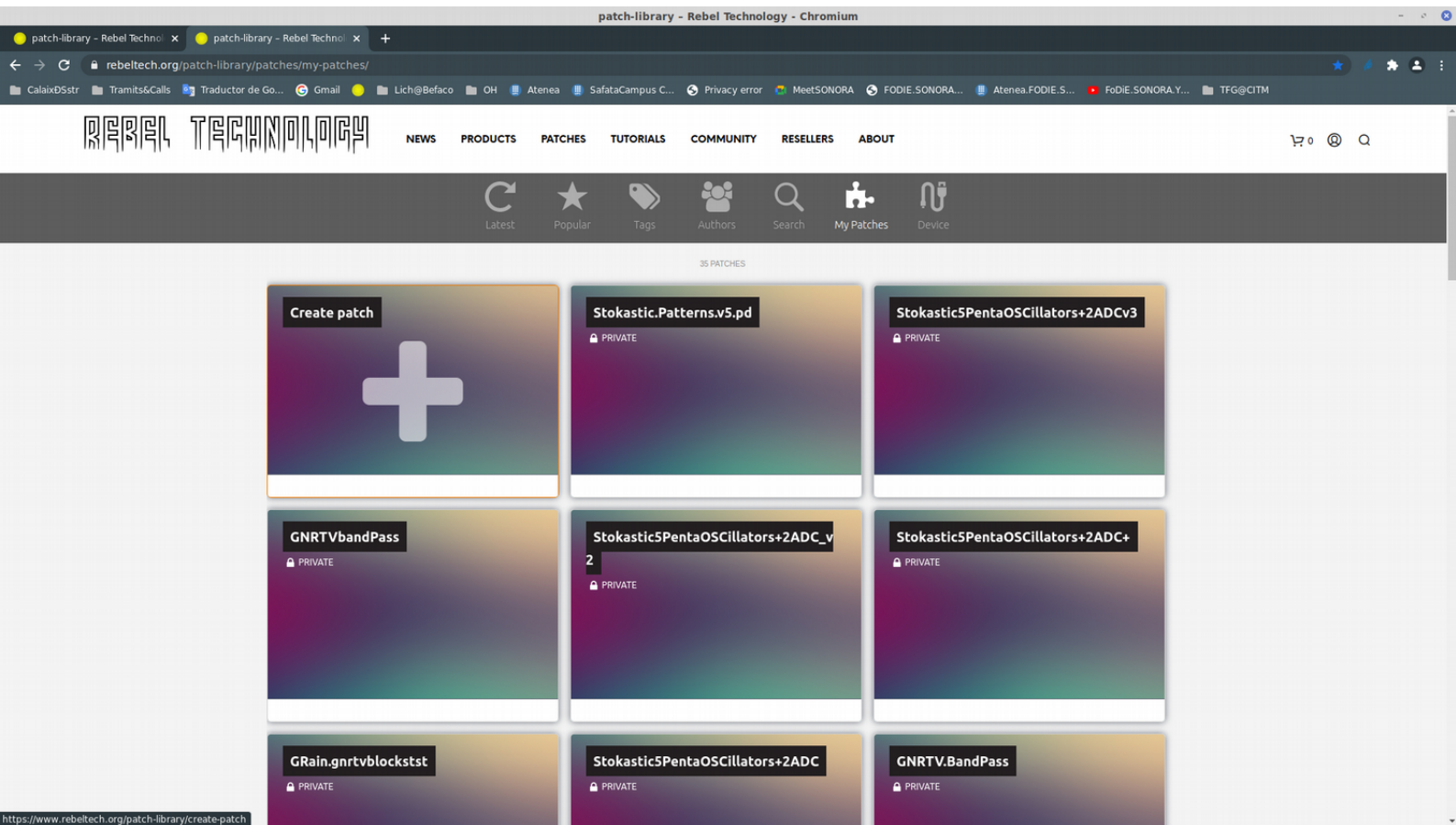


Note : You'll need a browser that supports Web MIDI (for ex. Google Chrome) due to the fact that the RebelTechnology's Browser tool requires the MIDI protocol to talk with Lich firmware. In case you still don't have set it up, a pop-up will ask you if you want to allow communication permissions of Midi devices within the browser.

Once connected, there appears the algorithms already loaded in LICH firmware.

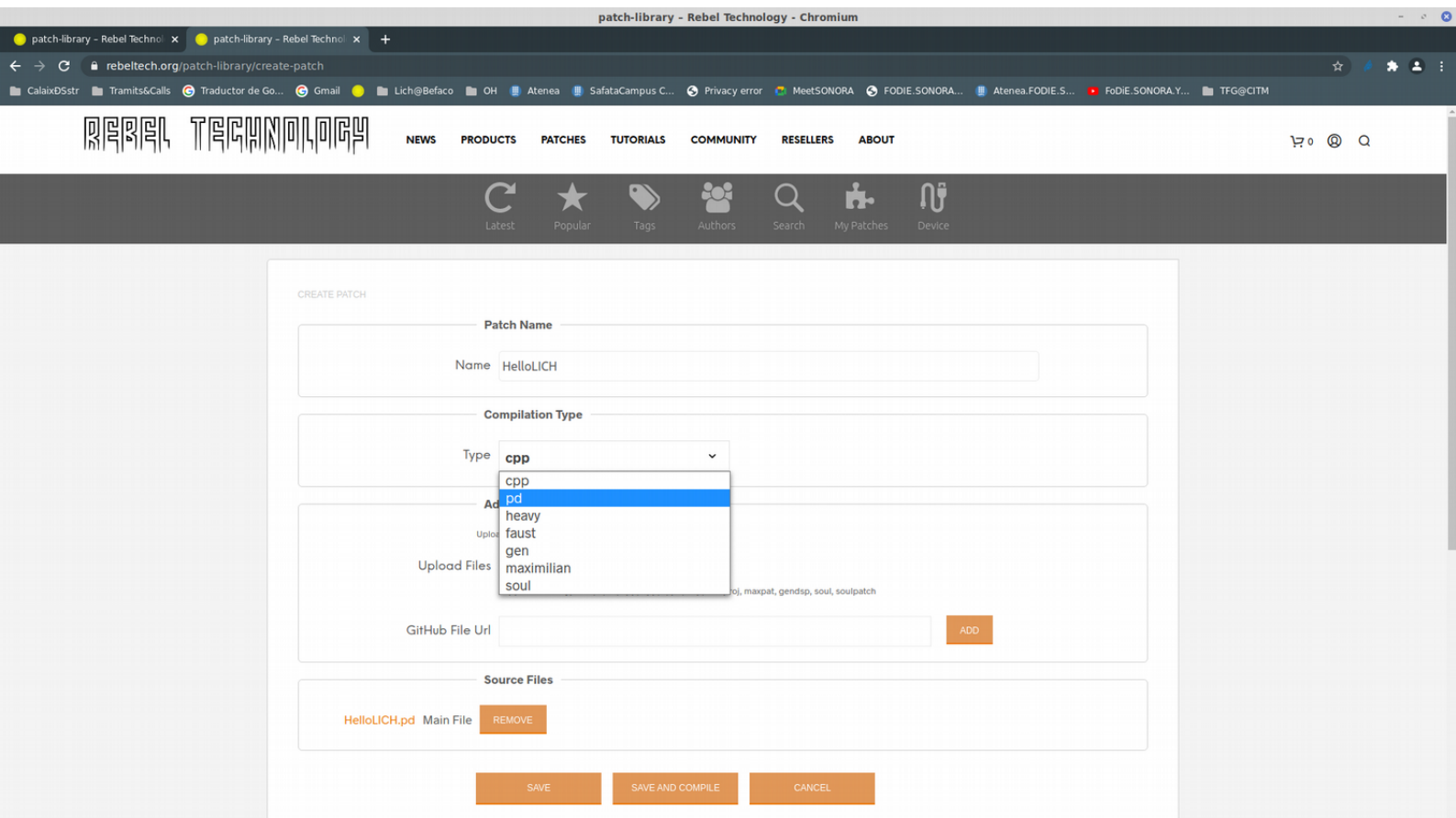


In order to load your patch from the computer, click **MyPatches** section, and **Create Patch**

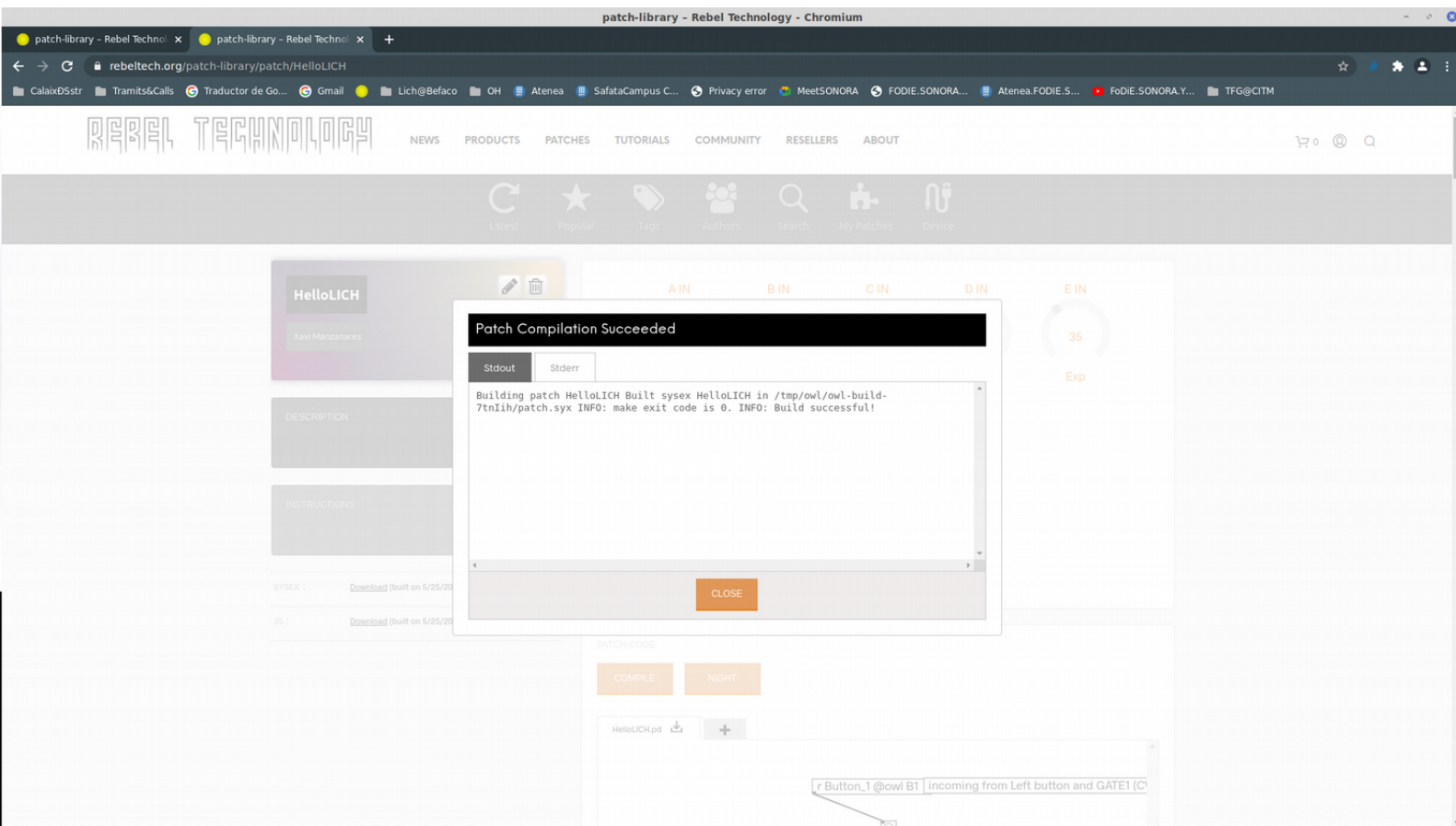


It appears an interface to Upload the Algorhythm* (in our case Pd). We can write the name we want, click type **pd** in the **compilation type** after we'll browse the patch in our computer in the **upload files** section. Alternatively we can add the **github's file url** of the patch instead of upload it from our computer. Then we can click **'Save and Compile'** button in the bottom.

* can be different codes programmed in C++, pd, heavy, faust, gen, maximilian or soul.



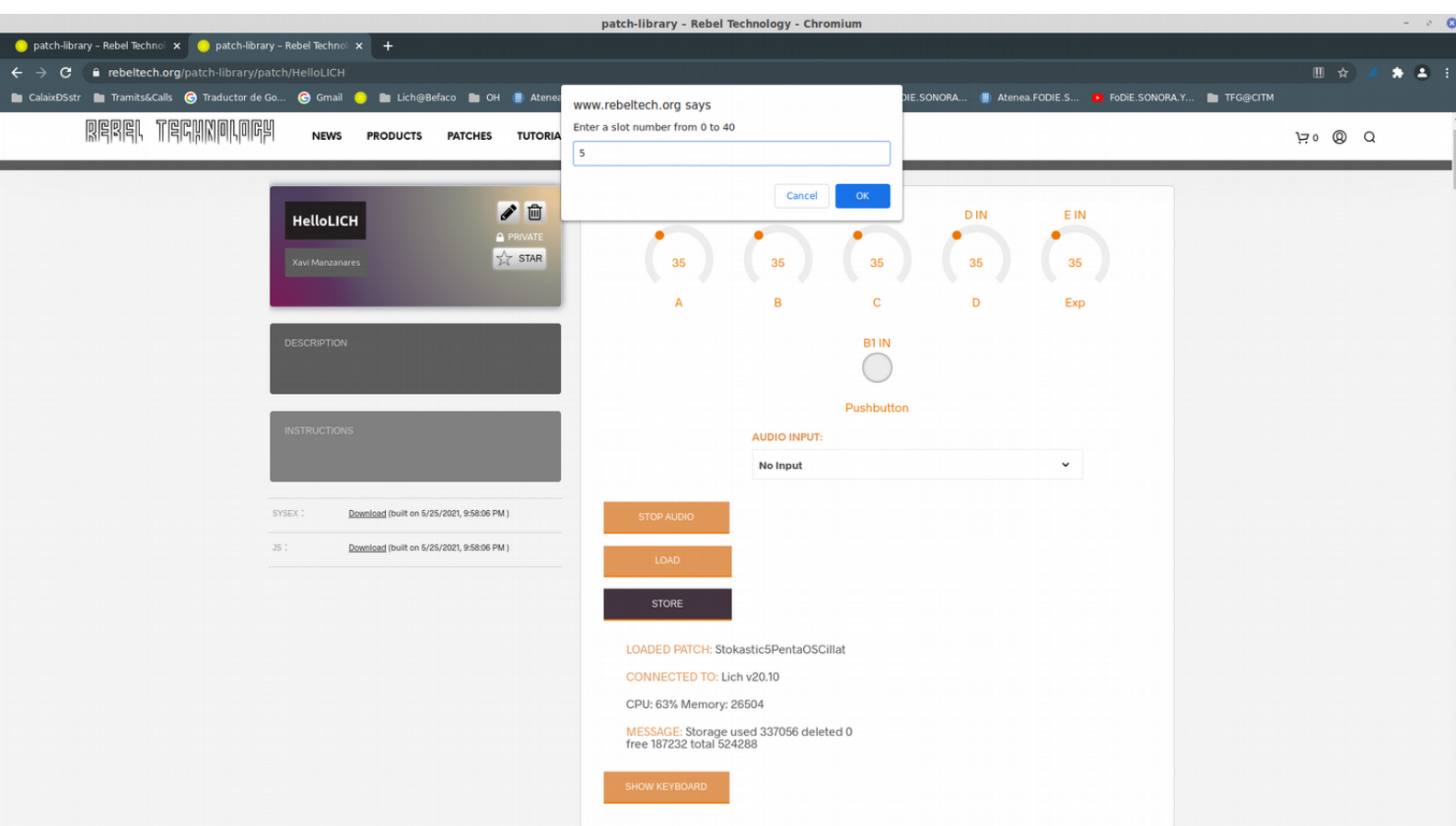
Few seconds later of being pressed 'Save and Compile' button, will appear a pop-up informing about the compiling process.



In case there is an error, pd patch will not be loaded into LICH and we have to re-program and debug our patch in the computer, following the clues and errors described in the shell.

Otherwise, in case it appears 'Build Successful!' in the pop-up terminal, we have to Close the pop-up, and complete another tweaks : Click **Store** > It will appear another popup asking us for the slot we want to store the new patch (or code) into the LICH's firmware.

Important note: in the popup appears slot number from 0 to 40, but I strongly recommend you just store from slots 0 to 9.



After STORE the number, press LOAD, and if there is not an unexpected error, your pd patch will be running in your LICH

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rebeltech.org/patch-library/patch/HelloLICH

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HelloLICH
Xavi Manzanares
PRIVATE
STAR

DESCRIPTION

INSTRUCTIONS

SYSEX : [Download](#) (built on 5/25/2021, 9:58:06 PM)

JS : [Download](#) (built on 5/25/2021, 9:58:06 PM)

A IN 35 B IN 35 C IN 35 D IN 35 E IN 35

A B C D Exp

B1 IN

Pushbutton

AUDIO INPUT:
No Input

STOP AUDIO

LOADING ...

STORE

LOADED PATCH: HelloLICH

CONNECTED TO: Lich v20.10

CPU: 55% Memory: 27528

MESSAGE: Storage used 337056 deleted 0 free 187232 total 524288

SHOW KEYBOARD

If you like your development and want to publish it and contribute with the community, you can add Concept Description of your Pd patch and Instructions that describes the parameters associated with the LICH's Hardware (therefore Knobs, buttons, Signal Ins, CV Ins, CV outs, Signal Outs).

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rebeltech.org/patch-library/patch/HelloLICH

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HelloLICH
Xavi Manzanares
PUBLISHED PRIVATE
STAR

DESCRIPTION

generative rhythm box with a quantized delay line etc etc...

INSTRUCTIONS

delay // knob C > pattern // knob D > delay's feedback // IN L > Incoming audio sliced in the pattern // IN R > Incoming audio sliced in the pattern // GATE1 > external Clock by CV // GATE 2 >

SYSEX : [Download](#) (built on 5/25/2021, 9:58:06 PM)

JS : [Download](#) (built on 5/25/2021, 9:58:06 PM)

ADD A TAG

ADD A SOUNDCLLOUD LINK

INPUT INPUT INPUT

35 35 35

A B C

ID: PARAMETER_A ID: PARAMETER_B ID: PARAMETER_C

INPUT INPUT

35 35

D Exp

ID: PARAMETER_D ID: PARAMETER_E

ADD PARAMETER

INPUT

Pushbutton

ID: BUTTON_1

ADD BUTTON

Once edited the info you can save and publish it your patch.
Don't forget to add some tags in the Description, wich will define more details for other users searches.

The screenshot shows a web browser window with the URL `rebeltech.org/patch-library/patch/HelloLICH`. The page features a dark header with the 'REBEL TECHNOLOGY' logo and navigation links: NEWS, PRODUCTS, PATCHES, TUTORIALS, COMMUNITY, RESELLERS, and ABOUT. The main content area is divided into three columns. The left column contains a patch card for 'HelloLICH' by Xavi Manzanares, with a 'PRIVATE' status and a 'STAR' button. Below the card is a 'DESCRIPTION' section stating 'generative rhythm box with a quantized delay line etc etc...' and an 'INSTRUCTIONS' section with a detailed patch description. The right column displays a visual representation of the patch, showing five knobs labeled A IN, B IN, C IN, D IN, and E IN, each with a value of 35. Below these is a 'B1 IN' knob and a 'Pushbutton'. An 'AUDIO INPUT' dropdown menu is set to 'No Input'. At the bottom of the right column are buttons for 'STOP AUDIO', 'LOAD', 'STORE', and 'SHOW KEYBOARD'. The bottom of the page shows system information: 'LOADED PATCH: HelloLICH', 'CONNECTED TO: Lich v20.10', 'CPU: 55% Memory: 27528', and a 'MESSAGE' about storage usage.

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rebeltech.org/patch-library/patch/HelloLICH

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HelloLICH

PRIVATE

Xavi Manzanares

STAR

DESCRIPTION

generative rhythm box with a quantized delay line etc etc...

INSTRUCTIONS

///// knob A > amount of filter ///// knob B > quantized delay ///// knob C > pattern ///// knob D > delay's feedback ///// Button L > clock defined by Incoming CV at Gate1 ///// Button R > Switch Waveshaper preset ///// IN L > Incoming audio sliced in the pattern ///// IN R > Incoming audio sliced in the pattern ///// GATE1 > external Clock by CV ///// GATE 2 > switching waveshaper by CV from another module ///// GATE OUT > clock ///// CV OUT 1 > SMOOTH Random CV value ///// CV OUT 2 > STEPPED Random CV value ///// OUT L > L Channel Audio Signal ///// OUT R > R Channel Audio Signal

SYSEX : Download (built on 5/25/2021, 9:58:06 PM)

JS : Download (built on 5/25/2021, 9:58:06 PM)

A IN 35 A

B IN 35 B

C IN 35 C

D IN 35 D

E IN 35 Exp

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Pushbutton

AUDIO INPUT:

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STORE

LOADED PATCH: HelloLICH

CONNECTED TO: Lich v20.10

CPU: 55% Memory: 27528

MESSAGE: Storage used 337056 deleted 0 free 187232 total 524288

SHOW KEYBOARD

Enjoy the power of building your algorithms and link them with your modular system!