



Enric Perpinyà Pitarch

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● ABOUT ME

I am a network and software engineer with a degree in telecommunications and a double master's in cloud and network infrastructure in Aalto, Finland, and KTH, Sweden. I have already been involved in open-source projects that thousands use daily. I have also developed several websites with significant traffic. The technical part is important, but the person behind it is even more so if you want to meet, please don't hesitate to contact me!

● EDUCATION AND TRAINING

20/08/2022 – CURRENT Stockholm, Sweden

(MASTER) ICT INNOVATION IN CLOUD AND NETWORK INFRASTRUCTURES Kungliga Tekniska högskolan (KTH)

Website <https://www.kth.se/en>

20/08/2022 – CURRENT Espoo, Finland

(MASTER) ICT INNOVATION IN CLOUD AND NETWORK INFRASTRUCTURES Aalto University

Interdisciplinary master from EIT of European Union (European Institute of Technology). In my specific case my universities are Aalto and KTH. (<https://masterschool.eitdigital.eu/cloud-and-network-infrastructures>)

Website <https://www.aalto.fi/en> | **Final grade** 4,54/5

01/09/2017 – 15/05/2021 Barcelona, Spain

(BACHELORS) TELECOMMUNICATIONS ENGINEERING Politechnical University of Catalonia (UPC)

Website <https://www.upc.edu/en/> | **Final grade** 7.31/10 | **Thesis** QUIC over IP Multicast

Link <https://upcommons.upc.edu/handle/2117/375321>

● WORK EXPERIENCE

01/01/2024 – CURRENT Palma, Spain

ICT NETWORK AUTOMATION ENGINEER GRUPO SAMPOL

- I did my master thesis: "A comparison between Network automation and SDN".
- I helped improving internal libraries for network automation.

01/06/2022 – 01/08/2022 Palma, Spain

ICT NETWORK ENGINEER GRUPO SAMPOL

- Mapping the network infrastructures of hotels.
- Development of libraries for automatic diagnostic of hardware.

- Mapping the network infrastructures of hotels.
- Development of libraries for automatic detection of devices on the installations (device agnostic).
- Development of libraries for automatic upgrade of software over the routers and access points.

● LANGUAGE SKILLS

Mother tongue(s): **CATALAN** | **SPANISH**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | C1 | C1 | C1 | C1 | C1 |
| CHINESE | A1 | A1 | A1 | A1 | A1 |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DRIVING LICENCE

Driving Licence: B

● PROJECTS

01/09/2023 – 03/10/2023

Engrescat

Engrescat is a contest held in Barcelona by Telecogresca, the biggest university festival organized by university students in Spain. I made this website for deciding the finalist who will be able to perform at the festival. I made it using Wagtail - Django and DaisyUI - TailwindCSS as the main frameworks/libraries. There is an admin panel to control the phases, editions, contestants, and all the business logic and the content of the website itself.

Link <https://engrescat.org>

01/07/2022 – 15/07/2022

Namubufferi

I designed an internal website for Athene Guild at Aalto University. I made it for managing the fridge inside the guild. It handles all the transactions and the payment gateway using MobilePay (the mobile payment system in Finland). It uses Django and tailwindCSS.

Link <https://namubufferi.fi>

01/07/2021 – 01/09/2022

Multicast Extension for QUIC

Attending the "Multicast Extension for QUIC" proposal meetings in the W3C.

Link <https://datatracker.ietf.org/doc/draft-jholland-quic-multicast/>

01/02/2024 – CURRENT

Contribution to open-source: NTC-Templates

Due to the need for more support from certain network vendors in widely used libraries in network automation, I decided to contribute to supporting those vendors. In that case, the vendor is Huawei. As with any project I do, I did the needed testing to ensure the correct functionality and future easy maintainability.

In this case, this project parses the output of the commands issued to network devices. It solves the problem of parsing the output from multiple network equipment in a script. Before, it was done individually for each command and device, using complex code. With this library in one line, the output can be parsed.

I just share a few contributions, but there is much more!

Links <https://github.com/networktocode/ntc-templates/pull/1663> | <https://github.com/networktocode/ntc-templates/pull/1650> | <https://github.com/networktocode/ntc-templates/pull/1667>

01/01/2024 – CURRENT

Open-Source developer: FakeNOS

One of the primary challenges I faced during my thesis work was the lack of available network operating systems (NOS). This posed a significant issue because developing a network automation tool without the ability to test it automatically makes its maintenance difficult. The same problem arises during the debugging phase when developing new tools. In my case, I was creating tools for Gigabit Passive Optical Networks (GPON). However, due to the unavailability of NOS from any vendor, I decided to simulate the Command-Line Interface (CLI) and other protocol outputs of these systems as closely as possible.

FakeNOS is designed to emulate the outputs of various network operating systems in a programmatic and user-friendly manner. Currently, it primarily supports SSH outputs, but it can be extended to other protocols. It is not restricted to any specific network vendor, supporting approximately 40 different platforms, including Cisco IOS and Huawei SmartAX.

Link <https://fakenos.github.io/fakenos/>

● HOBBIES AND INTERESTS

Music

I started playing the clarinet and piano at fifteen when I was seven years old. I play in a band in Palma of Majorca (Banda Musical Son Rapinya), and while I was in Barcelona, I was in the UPC Orchestra. In 2021, I was co-founder of the UPC Orchestra association.

Sports

I like to go to the gym to keep in shape mentally and physically and to do long walks as well.

English Improv Theater

During my stay in Sweden, I started doing improvisation theater to sharpen my presentation skills and my creativity.

Do websites

I like to help as much as possible in the organizations I belong to. Almost every organization nowadays has a website, so I try to help develop and improve them.

Dancing Salsa

During my stay in Finland, I started dancing salsa at Aalto University.

● VOLUNTEERING

01/01/2021 – CURRENT Palma of Majorca

Son Reus animal wellbeing center

Volunteering at Son Reus Animal Wellbeing center (CSMPA).

● CERTIFICATIONS

01/02/2024 – CURRENT

Chinese HSK-1

Currently, I am learning chinese to reach the level HSK-1 (comparable to A1) in Chinese.

AWS Solutions Architect Associate

Currently, I am studying for the AWS Cloud certification as a solutions architect in the associate level.