

**Filipe Coelho**

falktx@falktx.com

+49 1573 4020937

+351 963 453 117

**Address**

Kluckstr. 34 c/o Stein

10785 Berlin

Germany

**Online Profile**

github.com/falkTX

github.com/DISTRHO

# Filipe Coelho

## Software Developer

### About Me

Self-taught software developer, with personal interest in C++ and Python. Easily motivated by a good challenge. Open-Source enthusiast.

## Software Development Skills

### Programming Languages

- C
- C++
- Javascript
- Python

### Programming Frameworks

- Juce
- Qt
- HTML5/CSS3/ES6

### Programming Systems

- Bash scripting
- Debian packaging
- Linux (OS and APIs)
- git (versioning system)

### Created Open-Source Projects

- **KXStudio** - [kxstudio.linuxaudio.org](http://kxstudio.linuxaudio.org) - 2009  
Linux distribution and repositories, focused on audio production. Can be installed as full OS, or extend Debian/Ubuntu based systems through its repositories.
- **Cadence** - [kxstudio.linuxaudio.org/cadence](http://kxstudio.linuxaudio.org/cadence) - 2009  
A collection of tools to manage Linux audio. Includes Audio settings, patchbay, recorder, meter and logs viewer.
- **Carla** - [kxstudio.linuxaudio.org/carla](http://kxstudio.linuxaudio.org/carla) - 2011  
Fully-featured cross-platform audio plugin host. Loads plugins (LADSPA, DSSI, LV2, VST2, VST3, AU) and sample banks (SF2, SFZ), and also works as an audio plugin itself.
- **DPF** - [github.com/DISTRHO/DPF](https://github.com/DISTRHO/DPF) - 2011  
C++ framework to create real-time cross-platform audio plugins. Provides UI support using OpenGL, with integrated NanoVG library.
- **DPF-Plugins** - [github.com/DISTRHO/DPF-Plugins](https://github.com/DISTRHO/DPF-Plugins) - 2012  
A collection of real-time audio plugins. Uses DPF for cross-platform multi-plugin-format support.
- **DISTRHO-Ports** - [distrho.sf.net/ports](http://distrho.sf.net/ports) - 2011  
Linux ports of existing open-source audio plugins, using Juce. Contains a forked version of the Juce library for LV2 plugin support.

## Work Experience

### October 2018 - current, *Software Developer*, BEWATEC

- Full-stack developer

Technologies used: AWS, Node Express, ReactJS

### September 2017 - October 2018, *Software Developer*, Snuk

- Full-stack developer

Technologies used: Ansible, Django, Docker, Go, GCP, Grafana, ReactJS

### September 2015 - current, *Software Developer*, MOD Duo GbR

- Creation of a highly-optimized, real-time Linux embedded system
- Programming of a complex HTML interface and webserver
- Programming of real-time audio applications and plugins

Technologies used: Buildroot, C, C++, HTML5, Javascript, Python

**Filipe Coelho**

falktx@falktx.com

+49 1573 4020937

+351 963 453 117

**Address**

Kluckstr. 34 c/o Stein

10785 Berlin

Germany

**Online Profile**

github.com/falkTX

github.com/DISTRHO

## Interests

### Professional

- Creation of desktop applications
- Software development focused on high-performance, with real-time requirements in mind
- Software with hardware integration

### Personal

- Audio production (FL Studio, Renoise and self-made applications)
- Linux and Open-Source enthusiast

## Publications and Presentations

### **2018, *An explanation of various plugin formats and why they exist*, Sonoj**

<https://media.ccc.de/v/sonoj2018-1803-plugin-formats>

### **2018, *Carla feature overview and workflows*, Linux Audio Conference**

[https://media.ccc.de/v/lac2018-24-carla\\_plugin\\_host\\_feature\\_overview\\_and\\_workflows](https://media.ccc.de/v/lac2018-24-carla_plugin_host_feature_overview_and_workflows)

### **2017, *Carla Demonstration and Workflows*, Sonoj**

<https://media.ccc.de/v/sonoj2017-1704-carla-plugin-host>

### **2017, *Team presentation about the MOD*, Linux Audio Conference**

<http://youtu.be/kmil9luagVk>

### **2016, *LV2 Plugin Publishing for MOD*, Linux Audio Conference**

<https://media.ccc.de/v/minilac16-publishingyourlv2>

### **2016, *Making Plugins with DPF*, Linux Audio Conference**

<https://media.ccc.de/v/minilac16-ltsmakesomeplugins>

### **2015, *Carla Presentation*, Linux Audio Conference**

<http://lac.linuxaudio.org/2015/video.php?id=47&h=576>

### **2015, *Testing audio plugins with Carla*, Linux Audio Conference**

<http://lac.linuxaudio.org/2015/video.php?id=70&h=576>

### **2015, *Personal Interview*, Libre Music Production**

<http://libremusicproduction.com/articles/friday-interview-2-falktx>

### **2015, *Publication about Carla*, Linux Magazine**

<http://www.linux-magazine.com/Issues/2015/175/Carla>

### **2014, *DPF Presentation*, Linux Audio Conference**

<http://lac.linuxaudio.org/2014/video.php?id=91&h=720>