

Etienne ANDRE

Engineering student

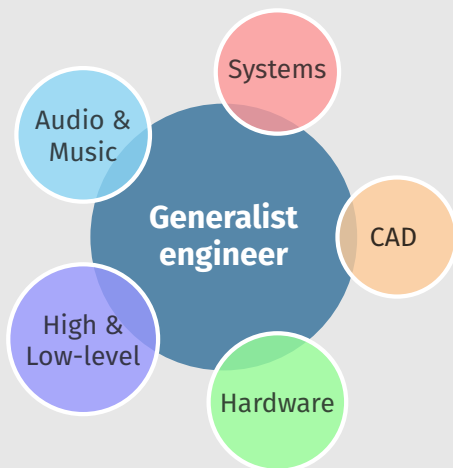
- @ etienne.andre@telecom-sudparis.eu
- +33 6 51 23 64 89
- http://etiand.re
- https://github.com/etiandre

About Me

A french engineering student currently looking for a **6-month internship** abroad, in the field of **embedded systems** and **interactive experiences**.

Creative and resourceful, I'm interested in **audio and music** applications in particular.

Skills



Languages

French

English

Italian

Education

- 2016 – 2020 **Engineering degree** Télécom SudParis, France
Graduating with a specialization in embedded systems in one of the leading french engineering schools. Studied a wide range of topics including operating systems, low-level programming, computer vision, interactive experiences & VR.
- 2014 – 2017 **Preparatory class, Math & Physics** Lycée Descartes, France
Intensive preparation for the national entrance exams to engineering schools. Focus on math, physics and engineering.
- 2014 **Bachelor of Science**
Graduated with honors.

Experience

- 2019 **Dynamic Uncore Frequency** CS dept. of Télécom SudParis
C, Linux, distributed systems
Developed a runtime system that dynamically adapts the uncore frequency in order to reduce a distributed application's power consumption with a user-defined limit on performance degradation. A scientific paper on the topic is pending publication.
- 2019 **PID control study** Electronics dept. of Télécom SudParis
FGPA, DSP, analog electronics, assembler
Implemented PID controllers in hardware, software, and produced a training course aimed at first-year students.
- 2018 **Data visualization in VR** ESAD, France
Javascript, webVR, nodejs, HTC vive
Developed of a new way to explore large datasets in VR using intuitive hand gestures, based on open web standards.
- 2017 **Web developer & integrator** ANPN, France
PHP, HTML, CSS
Designed and developed websites for a variety of clients.

Personal projects

- 2016 – 2019 **Musical instruments creation & hacking**
3D modeling & printing, machining, electronics
 - Custom embedded software synth
 - Vintage rhythm box expansion
 - NJD Siren and "noise box"
 - Electrical violin
- 2019 **3D GameCube-like GUI framework**
UI, Javascript, threejs
3D imitation/emulation of the GameCube BIOS's GUI and animations in the browser.
- 2018 **Sentence-Mixer speech synthesizer**
Java, Audio
Experimental sentence-mixing text-to-speech program for easy custom voice creation.
- 2018 **Multicam**
bash, python, wood & duct tape
360° photo booth for parties. The panoramic picture is stitched on-the-fly, displayed to the guests on a screen and then posted on the internet.