JEAN CRUYPENYNCK

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EDUCATION

2016-2017 Master "ingénierie des systèmes images et sons"

Equivalent to two-year Master's degree specializing in audiovisual engineering

Université de Valenciennes, France

2013-2014 Licence "sciences de l'information, audiovisuel et médias numériques"

Equivalent to Bachelor's degree specializing in audiovisual technology

Université de Valenciennes, France

2011-2013 Classes préparatoires MPSI/MP

Equivalent to intensive foundation course in mathematics and physics

Lycée Chatelêt, Douai, France

2011 Baccalauréat (French secondary school diploma), science major

Lycée Saint-Jean, Douai, France

EXPERIENCE & PROJECTS

2017 Internship (6 months), Flux::Sound and Picture Development

• Supporting the development of an application dedicated to multichannel audio mixing

• Researching and developing hybrid FIR/IIR digital filters

• Transitioning from an internal build system to CMake

Orléans, France

2016-2017 Adaptive quantization for the HEVC x265 encoder (using C and C++)

• Adding an adaptive quantization part to the x265 encoder based on JND contours map

• Creating a real-time HEVC transcoder integrating the adaptive quantization

Université de Valenciennes, France

2015-2016 Internship (1 year), Dolby Laboratories, Inc.

• Tester in the team responsible for the new Dolby AC-4 audio codec

• Maintained and extended over 10 000 fully automated tests (with Python and py.test)

• Developed several internal testing tools in Python

Wrocław, Poland

2015 Multistereo, a real-time 5.1 to binaural audio converter written in C, using PortAudio, FFTW

and libsndfile libraries and Matlab

Université de Valenciennes, France

2014 Laureate IABM Engineering Student Awards, to participate to IBC

• Eight students in audiovisual engineering selected in the world

• Selected based on a presentation about binaural audio

IBC, Amsterdam

SKILLS

Strong knowledge in perception, processing, compression and transmission of generic audio and video signals and of spatial audio especially.

Programming languages Python, C, C++, Swift

Tools git, LaTeX, Matlab, FFMpeg, OpenGL, portaudio, Qt

Operating systems macOS, Linux

Fluent in French (native) and English (C1 European level), basic Russian and German.

INTERESTS

Music (ten years of violin, four years of guitar), photography, typography and etymology.