

# James Darnley

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## Education:

2003-2005 – Edexcel GCE, A Level – The British School of Brussels, Tervuren, Belgium

- Chemistry, grade C
- Mathematics, grade B
- Physics, grade C

2005-2007 – BSc Physics with Astrophysics (unfinished) – The University of York, York, UK

- Academic topics covered included 3D calculus, matrix and vector mathematics, optics, electrical circuits, fluid dynamics, mechanics, astronomy, quantum mechanics
- Practical laboratory work involved use of: computer-controlled telescope, liquid nitrogen, electronic data capture, electrical circuits, radiation detectors and radioactive sources.

2008-2012 – Nederlands NT2 – CVO Tervuren-Hoeilaart, Belgium

- Total of 720 hours, mark 80%

## Volunteer Experience:

2009-2010 – Open-source code commits to x264

2010-2016 – Open-source code commits to FFmpeg

- Metadata improvements to AVI, FLAC, MPEG audio, and Ogg format muxers.
- Small improvements to FLAC, libmp3lame, libvorbis audio encoders; MPEG, libx264 video encoders; idet and yadif video filters.
- New x86 assembly for FLAC audio encoder; H.264 and v210 video encoders, removegrain and yadif video filters.

## Undocumented Skills:

Computer skills:

- Operating systems: Windows and Linux
- Programming: C, Lua, and x86 assembly
- Scripting: batch, Lua, and shell script
- Other tools: Git, Make, SSH, Vim
- Familiar with audio and video processing