

Ánoq of the Sun CV Overview

Ánoq of the Sun (alias Johnny Bock Andersen), Hardcore Processing *

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Ánoq of the Sun (alias Johnny Bock Andersen) Short Version CV

This document is available online in two file formats:

- <http://www.hardcoreprocessing.com/home/anoq/cv/anoqcvoverview.pdf>
- <http://www.hardcoreprocessing.com/home/anoq/cv/anoqcvoverview.ps>

Computer Scientist

I am a software developer and computer scientist and it is **second-nature** for me, to create **advanced** and **high-performance software**.

Since I was around 8-10 years old, I have been writing software. Since 1994, when I was 19 years old and just finished high-school, I have worked professionally in this field, some periods of my life even as more than "just" a full-time job occupancy. At the time of this writing (2012-06-05), this gives me **26-28 years of experience**, **17.5 years professional**, at an age of 37 and yes, I even have a social life.

I have a master's degree in computer science and a bachelor's degree in computer science and mathematics from the University of Copenhagen in Denmark, where I was an exchange student in mathematics in Athens in Greece as part of that. Many projects in my master's degree, as well as my bachelor's thesis, were defined so as to be relevant for my company, Hardcore Processing, that I founded in 1998.

For software development, I prefer and am capable of taking on the roles of **developer** and **software architect**. I am **one of the pioneers** in using the functional programming language **Standard ML** for real-life applications, such as games, graphical user interfaces, interactive 3D rendering and computer vision. Similar modern functional programming languages, e.g. **Haskell**, would also be easy for me to use and I have worked with the **MLFi** dialect of **O'Caml**. I am also skilled and experienced in using old fashioned imperative and object oriented languages, in particular **C**, **C++**, **Objective-C** and **Delphi/Pascal**. I also know more modern versions of such languages that have adopted much from functional programming languages, in particular **C#** that I have recent experience with, but also e.g. **Python** and **Java**. I usually write **well-structured and portable software**.

I normally do **automated tests** for the software that I write, which is very important. I also have **proven skills of documenting** what I do, from detailed accurate specifications to software design documentation.

A special field of computer science, where I am particularly skilled, is that of **compiler technology** and **semantics for programming languages**, where I have made a modern compiler and memory management system for my own programming language, **CeXL**, as well as its formal semantic language specification (in the 100 pages long rigorous *appendix* of my bachelor's thesis) and a proof of type-soundness of the core language and its novel record calculus. CeXL is a dialect of Standard ML and I still have **at least one more research article to publish** about it.

In another field, **computer graphics science**, I have attended paper sessions at the SIGGRAPH conference for more than 10 years as well as EuroGraphics since 2007 and other related conferences. These places are where the latest research is being presented and published within this field, which puts my **knowledge-level on this at the cutting edge**.

A third and related field to computer graphics is **computer vision science**, where I have read many research articles and books, have started to attend conferences, such as CVPR and ICCV, and notably have an upcoming high-tech product, **CeX3D Inverse**, a program for automatically generating 3D models from ordinary photos without any prior camera calibration. See www.cex3d.net/inverse. Again, **cutting edge knowledge-level**.

My detailed CV as a computer scientist, including other general information, can be found at:

- <http://www.hardcoreprocessing.com/home/anoq/cv/anoqcvcomputerscientist.pdf>
- <http://www.hardcoreprocessing.com/home/anoq/cv/anoqcvcomputerscientist.ps>

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Musician

I am a musician **composing** and **producing creative instrumental electronic music**. I am **publishing my own CDs** and have so far released the 5-track CD called **Ánoq Maxi Single 1** as well as the online track release **Erotic Atmosphere Part 1**, through **my record label Ánoq Music**, founded in 2007. It would be interesting for me to create sound tracks for shows, movies, performances and computer games as well. See **www.anoq.net/music**.

I have got level A music from high-school and have been composing music from around 1990, when I was 15, and have been playing organ from around 1985. My detailed CV as a musician is to be found here:

- <http://www.anoq.net/music/cv/anoqcvmusician.pdf>
- <http://www.anoq.net/music/cv/anoqcvmusician.ps>

Computer Graphics Artist

I have been painting and making computer graphics since around 1987 and have been creating lots of 3D computer graphics later on. Professionally, I have worked as a **full-time 3D graphics artist for one year** in 1997/1998, where I did **TV-spots** shown on Danish television commercials, for e.g. the Danish National Bank. More recently, I have made a few 3D pictures using the (no longer existing) **RenderMan** renderer BMRT and **writing my own shaders** for that. An example of this is the cover for my CD, **Ánoq Maxi Single 1**. I have also made all graphics material for **advertising** and **marketing** of the upcoming product CeX3D Inverse, including **website**, **printed flyers** and **shirts with print**.

I have used e.g. **Maya** (on SGI), **Alias|Wavefront** (on SGI), **A|W Composer** (on SGI), **BMRT**, **Lightwave 3D**, **3D Studio Max** and **Adobe Photoshop**.

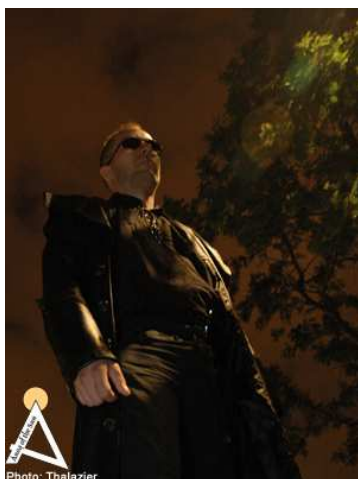
My detailed CV as a computer graphics artist can be found here:

- <http://www.hardcoreprocessing.com/home/anoq/cv/anoqcvgraphicsartist.pdf>
- <http://www.hardcoreprocessing.com/home/anoq/cv/anoqcvgraphicsartist.ps>

Some Business Skills

I have gotten into the Danish business startup networks, where I am a member of Dansk Iværksætter Forening (DIF) and have participated in e.g. DIF's StudieVirk network, OpenCoffee Club, CSE's Friday Bars. I participated in phase one of the VentureCup competition in 2007 and submitted a business plan for the Startup Competition of VentureCup 2012. I am doing sales, marketing and promotion work for both my company and my music, including exhibiting at SIGGRAPH 2011 in Vancouver in Canada with two employees, so I am starting to get the hang of marketing and business.

Pictures



Cool picture of me from 2007 :-)
Photographed by a friend



CD cover picture for
Ánoq Maxi Single 1
Rendered with BMRT and
created by my own software



My business card (outdated address)
Rendered with BMRT and
created by my own software