Smilen Dimitrov

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- orcid.org/0000-0002-0013-096X github.com/sdaau



Ph.D. in Electronics (Media Technology)

Aalborg University Copenhagen, Denmark • Thesis: "Towards an open digital audio workstation for live performance: the development of an open soundcard", http://dx.doi.org/10.5278/vbn.phd.engsci.00028 (see also http://smilen.net/phd) Open-source implementations of soundcard hardware, Linux soundcard driver development in C, and development of auxiliary tools in Python, Perl M.Sc. in Media Technology **Aalborg University** 2004 - 2006 **Q** Copenhagen, Denmark Thesis: ""DMX Director" - Architecture of a 3D light-programming application, in a multi-user Internet environment" • Development of 3D web user front-end in Virtools (light events sequencer); administration front-end in ASP .NET C# and Macromedia Flash (ActionScript); database in MySQL; real-time control of stage light via DMX. Internship @ Brother, Brother & Sons ApS, Copenhagen. Multimedia Designer **Aarhus Technical College** 2002 - 2004 Århus, Denmark • Final project: software for real-time 3D visualization of sensor-equipped machine parts in Macromedia Director (Shockwave3D) via RS-232 serial. Internship @ Brother, Brother & Sons ApS, Copenhagen. **B.Sc.** in Electronics & Telecommunications Faculty of Electrotechnical engineering, University "Sts. Cyril & Methodius" 1995 - 2001 Skopje, Republic of Macedonia • Final report discussed Trellis coding High School Diploma "Bonny Eagle" H. S.

1994 - 1995

Standish, Maine, United States of America

High School S.U. "Orce Nikolov" 🛗 1992 - 1994

Skopje, Republic of Macedonia

LANGUAGES

English (Fluent, university lecturer) Danish (Fluent, Dansk 3 level) Serbo-croatian (Fluent) Macedonian (Native)

PUBLICATIONS

For full list of publications, please see: http://vbn.aau.dk/en/persons/smilen-dimitrov(06cfcb9e-daa2-48e1-88da-c8a46ba8601a)/publications.html



2007 - 2015

SKILLS

- Software/programming: C (including embedded/microcontroller), C++, Python, Perl, PHP, HTML/CSS/JavaScript, Pure Data, Lager (book layout experience); can adapt to working with various SDKs and operating systems (Linux, Windows, MacOS/OSX, Android)
- Design and implementation of prototype-level (2-sided) printed circuit board electronics hardware
- Working knowledge of graphics (Inkscape), audio (Audacity) and office (Libre/OpenOffice) software packages

WORK EXPERIENCE

Lecturer & Teaching assistant

Aalborg University

2005-2018

- Copenhagen, Denmark
- Lecturer for introductory electronics courses (Sensors Technology and Physical Interface Design) for Medialogy undergrade program
- Teaching assistant for several other courses (Statistics, Sound Processing), technical supervisor for student projects

Hardware/software developer BlackBoxEfx

🛗 Nov 2017 – May 2018

• Copenhagen, Denmark

• Design and build of 2-sided SMD PCB for a Raspberry Pi 3 add-on soundcard

• Linux device tree/drivers for the add-on, and user-space test software

Front-end developer Brother, Brother & Sons ApS

🛗 Feb 2016 – Oct 2016

- 💡 Copenhagen, Denmark
- Basic Linux server setup and administration
- Development of API and web-scraping client for the https://www.e-conomic.dk platform, utilizing PHP, HTML, CSS and JavaScript (CasperJS and SlimerJS)

Mobile developer citysounds.dk

m Oct 2015 – Sep 2016

• Copenhagen, Denmark

• Development of Android mobile app prototype with real-time sound processing based on location data; implemented in C++ using openFrameworks with several libraries (e.g. libPD, libRocket) as add-ons; PHP for server back-end

Application developer

Brother, Brother & Sons ApS

🛗 2007

- Copenhagen, Denmark
- Application for interactive artwork by Camille Norment at AMFI Moss, Norway (http://www.norment.net/temp/studio/art/moss/mossProject_pressRelease.pdf)
- Front-end application for Windows in C#, receiving real-time GPS location data via serial RS-232, and allowing of user-defined mapping, and control of RGB tiles via DMX

Application developer Brother, Brother & Sons ApS

2004

- Copenhagen, Denmark
- Application for serial manipulation of Barco SLM312 video projector
- Front-end for Windows in Macromedia Director MX; C coding for Atmel AtMega128 microprocessor

