CHRISTOPHER HAHNE

PERSONAL INFORMATION

Born in Wernigerode, Germany, 1 July 1987

email	info [ät] christopherhahne.de
website	http://www.christopherhahne.de
linkedin	http://uk.linkedin.com/pub/christopher-hahne/72/542/b22
phone	+49 (0) 176 32252164

WORK EXPERIENCE

2016–Present — Imaging Scientist — Ludwigshafen, GER

trinamiX GmbH (BASF subsidiary)

Responsibilities at the BASF spin-off include optical modelling, image signal analysis and software development.
Reference: Dr. rer. nat. Christian Lennartz +49 - (0)40 - 5896367-0 · christian.lennartz [ät] trinamix.de

2011–2012 — Graduand — Munich, GER

Arnold & Richter GmbH & Co. KG

Introduction to light field theory by conducting optical calibration methods as well as developing C++ codes to configure a plenoptic camera. Part of the work has been submitted to the SPIE society as a scientific paper and also published in a final year's Bachelor's thesis.
Reference: Dr. Ing. Johannes Steurer · +49 (0) 89 3809 1871 · jsteurer [ät] arri.de

2011 — Intern — Munich, GER

Rohde & Schwarz GmbH & Co. KG

Analysis and evaluation of the HDMI/TMDS protocol on the Data Link, Network and Transport layer which has been performed with "an outstanding willingness to achieve and a high degree of self-reliance as well as enthusiasm".
Reference: Christian Zuehlcke +49 (0) 89 41 29 1 32 64 · christian.zuehlcke [ät] rohde-schwarz.com

EDUCATION

2013-2016 — University of Bedfordshire — Luton, UK

Doctor of Philosophy

Computer Science · Department of Computer Science
Research field: *Light Field Photography*
Supervisors: Prof. Dr. Amar Aggoun & Dr. Vladan Velisavljevic

2012-2013 — Brunel University — London, UK

Master of Philosophy

Computer Science · School of Engineering and Design
Research field: *Light Field Photography*
Supervisors: Dr. Amar Aggoun & Dr. Emmanuel Tsekleves

2008-2012 — HAW Hamburg — Hamburg, GER

Bachelor of Science

Media Technology · Faculty of Design, Media and Information
Thesis: *Konfiguration einer digitalen Lichtfeldkamera*
Supervisor: Prof. Dr. Ulrich Schmidt

COMPUTER SKILLS

Basic C/C++, Java, PHP, SQL

Advanced Zemax, Python, Matlab, LaTeX, FPGA Design (VHDL, ISE, Chipscope)

PUBLICATIONS

Journal papers

C. Hahne, A. Aggoun, V. Velisavljevic, S. Fiebig, and M. Pesch "Baseline and triangulation geometry in a standard plenoptic camera," Int. J. of Comput. Vis. (IJCV), (2017).

C. Hahne, A. Aggoun, V. Velisavljevic, S. Fiebig, and M. Pesch "Refocusing distance of a standard plenoptic camera," Opt. Express 24, 21521-21540 (2016).

C. Hahne, A. Aggoun, S. Haxha, V. Velisavljevic, and J. Fernández, "Light field geometry of a standard plenoptic camera," Opt. Express 22, 26659-26673 (2014).

Conference papers

C. Hahne, A. Aggoun, and V. Velisavljevic, "The refocusing distance of a standard plenoptic photograph," in *3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video (3DTV-CON),* (2015). [Invited Paper]

C. Hahne, A. Aggoun, S. Haxha, V. Velisavljevic, and J. C. J. Fernández, "Baseline of virtual cameras acquired by a standard plenoptic camera setup," in *3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video (3DTV-CON),* (2014).

C. Hahne and A. Aggoun, "Embedded FIR filter design for real-time refocusing using a standard plenoptic video camera," in *Digital Photography X,* Proc. SPIE **9023,** 902305 (2014). [Invited Paper]

J. Steurer, M. Pesch and C. Hahne, "3D holoscopic video imaging system," in *Human Vision and Electronic Imaging XVII,* Proc. SPIE **8291,** 829109 (2012).

LANGUAGES

English · Fluent

German · Mother tongue

French · Basic (simple words and phrases only)

September 7, 2017