KRISTIAN HILDEBRAND

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PROFESSIONAL SKILLS AND ATTRIBUTES

- Ambitious and self-motivated, capable of learning new technologies.
- Open-minded communicator who likes to work as part of an experienced team.
- Experienced knowledge of general programming, in particular C++, Java, Python, Javascript.
- In-depth knowledge of graphics rendering APIs, image- and videoprocessing and web technologies.
- Extensive experience in digital fabrication processes.

PROFESSIONAL EXPERIENCE:

•	Principal Research Engineer, DISDAR GmbH, Berlin	(01/14 - ongoing)	
	- Development of machine learning algorithms for semantic document analysis.		
•	Research Consultant, Disney Research Zürich	(09/12 - 09/13)	
	- Research and consulting for digital fabrication algorithms and applications.		
•	Research Scientist, Computer Graphics, TU-Berlin	(10/08 - 12/13)	
	- Ph.D. thesis: "Digital Fabrication of Shape: Abstraction, Data Structures and Optimization"		
	- Research on large-scale content-based and sketch-based image retrieval.		
	- Supervision of M.Sc. theses; teaching courses in computer graphics and computer science.		
•	Co-Founder and CTO of kunstmatrix.com	(2008 - ongoing)	
	- Development of web-based virtual and augmented reality solutions for the art community.		
•	Software Engineer at art+com AG, Berlin	(03/06 - 10/08)	
	- Development of innovative media installations, environments and interactive systems.		
•	BMBF funded StartUp project SankeyVis	(10/05 - 03/06)	
	- Development of visualization software of energy networks.		
•	Teaching Assistant, Graphics-Optics-Vision Group, Max-Planck-Institut Informatik	(02/05 - 09/05)	
•	Research Assistant, Imager Lab, University of British Columbia, Vancouver	(04/04 - 08/04)	
•	Internship, Hella Aglaia Mobile Vision GmbH, Berlin	(03/03 - 04/03)	
•	Teaching Assistent, Bauhaus University, Weimar	(03/00 - 07/03)	

EDUCATION:

•	Ph.D., Dept. of Computer Science, TU-Berlin	(03/2014)
•	Visiting Researcher, Disney Research Zürich	(08/12 - 10/12)
•	Diploma, Max-Planck-Institut Informatik, Saarbrücken	(09/2005)
•	Visiting Researcher, University of British Columbia, Vancouver, DAAD scholarship	(2003 - 2004)
•	Diploma studies in media systems, Bauhaus University, Weimar	(1999 - 2003)

SELECTED PUBLICATIONS:

- Hildebrand, Kristian and Alexa, Marc. (2013). Sketch-based Pipeline for Mass Customization. ACM SIG-GRAPH Talks 2013.
- Hildebrand, Kristian, Bickel, Bernd and Alexa, Marc. (2013). Orthogonal Slicing for Additive Manufacturing. Computers & Graphics 2013.
- Hildebrand, Kristian, Bickel, Bernd and Alexa, Marc. (2012). crdbrd: Shape Fabrication by Sliding Planar Slices. Computer Graphics Forum (Eurographics 2012).
- Eitz, Mathias, Richter, Ronald, Boubekeur, Tamy, Hildebrand, Kristian and Alexa, Marc. (2012). Sketch-based Shape Retrieval. ACM Transactions on Graphics, Proc. SIGGRAPH 2012.
- Eitz, Mathias, Hildebrand, Kristian, Boubekeur, Tamy and Alexa, Marc. (2011). Sketch-based Image Retrieval. IEEE Transactions on Visualization and Computer Graphics.
- Slack, James, Hildebrand, Kristian, and Munzner, Tamara. (2006). PRISAD: a partitioned rendering infrastructure for scalable accordion drawing. Information Visualization.
- Magnor, Marcus, Hildebrand, Kristian, Lintu, Andrei and Hanson, Andrew J. (2005). Reflection Nebula Visualization. IEEE Visualization.

References available upon request