

CURRICULUM VITAE | DIETER FINKENZELLER

PERSONAL DATA

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phone (on demand)

date of birth (on demand)

place of birth Mittenwald, Bavaria, Germany

nationality German

marital status unmarried



EXPERIENCE

- 1/2011 – present **Finkenzeller Appsolution**
Plug-in development in C++ for Autodesk 3ds Max and Maya.
App development for Apple iOS.
- 10/2009 – 12/2010 **Materialwerk GbR**
Sales and distribution of the procedural modeling tool for masonry for Autodesk Maya and 3Ds Max.
- 3/2009 – 12/2010 **FragmentCulture**
Plug-in development for the modeling tool Autodesk Maya.
- 5/2008 – present
Realization of parts of my Ph. D. thesis as C++ plug-in for Autodesk Maya. First the entire concept of procedural modeling of building facades was intended to implement. In order to obtain a product in less time the focus was set to implement the concept of the procedural generation of masonry.
- 9/2001 – 4/2008 **University of Karlsruhe, Germany**
Scientific researcher
Research topics are procedural modeling of buildings, human-computer-interaction and the extension of virtual reality modeling languages (VRML/X3D) with mechanical data.
Collaboration in the SFB 588 “Humanoid Robots”, funded by the German Research Foundation (DFG).
Lectures: “Human-Computer-Interaction II”

- 4/2001 – 8/2001 **DKFZ Heidelberg, Germany**
Scientific researcher
Development of a 3d visualization system for micro-array data.
- 3/2000 – 2/2001 **Cyland AG, Karlsruhe, Germany**
Software developer
Worked on the topic of “virtual presence”. Field of duty:
database design, server programming in C++, database web-
access via PHP, Shell-Programming, Perl.
- 8/1999 – 2/2000 **Department of Distributed Systems, University of Ulm,
Germany**
Scientific researcher
Worked on the topic of “virtual presence”. Field of duty:
database interface design and access with embedded-SQL.
- 1997 – 7/1999 **Department of AI, University of Ulm, Germany**
Student scientific researcher
Web-page design and development; installation and
administration of 3d visualization systems for knowledge
representation. Collaboration in the SFB 527 “Integration of
symbolic and subsymbolic information processing in adaptive
sensormotorical systems”, funded by the German Research
Foundation (DFG).
- 1995 – 1997 **Computing center, University of Ulm, Germany**
Student scientific researcher
Development of a user account data base for the entire
university with Oracle and Oracle Forms.

EDUCATION

- 9/2001 – 4/2008 **University of Karlsruhe, Germany**
Scientific researcher
 PhD (Dr.-Ing.)
 PhD thesis: “Modellierung komplexer Gebäudefassaden in der Computergraphik”
 PhD research topic: procedural modeling of detailed building facades
 Lectures: “Human-Computer-Interaction II”
- 10/1992 – 3/1999 **Faculty of Computer Science, University of Ulm, Germany**
Student
 M. Sc. degree in Computer Science (Dipl.-Inf.)
 Master thesis: “Graphische Darstellung und Manipulation von Wissensbasen” (Graphical Manipulation and Visualization of Domain Models)
- 1983 – 1992 **Comprehensive secondary school,
 Werdenfels-Gymnasium Garmisch-Partenkirchen, Germany**
 Diploma (Abitur, allgemeine Hochschulreife)
 Major: mathematics, chemistry

SKILLS

- Languages German (mother tongue), English (fluent), French (elementary)
- Platforms Mac OS X, Linux, Windows, Solaris
- Applications Adobe Photoshop, OmniGraffle, Gimp, Adobe Premiere
 3d tools: Maya, Blender, RenderMan/3Delight
- Programming Objective-C, C/C++, Python, NISI (Installer development), PHP, SQL, PL/SQL, Shell-Programming, MEL (Maya Embedded Language), Tcl/Tk, Perl, AWK, Lisp, Modula 2, Oberon, Prolog, M68K Assembly
- Development tools Microsoft Visual Studio, Apple Xcode, Apple Interface Builder, Eclipse
- 3d libraries Maya API, 3Ds Max API, cgKit, OpenGL, RenderMan, OpenSG, OpenInventor
- GUI Qt, wxWidgets, GLUI, OSF Motif, Sun OpenLook

PUBLICATIONS

- Books **Modellierung komplexer Gebäudefassaden in der Computergraphik**
 Dieter Finkenzeller
PhD thesis, Universitätsverlag Karlsruhe, Germany, 2008

- Journals **Detailed Building Facades**
Dieter Finkenzeller
IEEE, Computer Graphics & Applications, May/June 2008
- Conference Papers **Semantic representation of complex building structures**
Dieter Finkenzeller and Jan Bender
Computer Graphics and Visualization – IADIS 2008, Amsterdam (Netherlands)
- Representation of complex façades using typed graphs**
Dieter Finkenzeller, Alfred Schmitt
Virtual Concept 2006, Cancún (Mexico)
- Rapid modeling of complex building façades**
Dieter Finkenzeller, Alfred Schmitt
Eurographics 2006, Vienna (Austria)
- Feature-based decomposition of façades**
Dieter Finkenzeller, Jan Bender, and Alfred Schmitt
Virtual Concept 2005, Biarritz (France)
- An impulse-based dynamic simulation system for VR applications**
Jan Bender, Dieter Finkenzeller, and Alfred Schmitt
Virtual Concept 2005, Biarritz (France)
- HW3D: A tool for interactive real-time 3D visualization in GIS supported flood modelling**
Jan Bender, Dieter Finkenzeller, and Peter Oel
CASA 2004, 17th international conference, Geneva (Switzerland)
- VISUM: A VR system for the interactive and dynamics Simulation of mechatronic systems**
Dieter Finkenzeller, Matthias Baas, Sven Thüring, Sadi Yigit, and Alfred A. Schmitt
Virtual Concept 2003, Biarritz (France)
- VISUM: Ein Virtual-Reality-System für das Testen und Trainieren von humanoiden Robotern**
Matthias Baas, Michael Fautz, Dieter Finkenzeller, Stefan Preuß, Sven Thüring and Alfred Schmitt
HCRS 2002 Human Centered Robotic Systems, Karlsruhe (Germany)
- KB-VISION: A Tool for Graphical Manipulation and Visualization of Domain Models**
Thorsten Liebig, Dieter Finkenzeller, and Marko Luther
10th European - Japanese Conference on Information Modelling and Knowledge Bases EJC 2000, Saariselkä (Finland)
- Master thesis **Graphische Darstellung und Manipulation von Wissensbasen**
Dieter Finkenzeller
Universität Ulm, Fakultät für Informatik, Germany, 1999