

Luderschmidt, Johannes
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Personal facts

Name Luderschmidt, Johannes
Degree M.Sc.
Date of birth 26. November 1979
Place of birth Wiesbaden



Education

Since July 2009 PhD student for "Multi-Touch and Tangible User Interfaces for Future Living Environments" at Wiesbaden University of Applied Sciences

2006 - 2008 Master's student in Computer Sciences with focus on Visualization at the University of Applied Sciences Wiesbaden. Degree: Master of Science (M.Sc.)

2007 Visiting student at the Royal Holloway University of London, UK

2001 – 2006 Media Informatics student at the University of Applied Sciences Wiesbaden. Degree: Diplom Informatiker (FH) (equivalent to Bachelor (Honours) degree in Computer Sciences).

2000 – 2001 Industrial Engineering and Management student at the Technical University Darmstadt

1999 – 2000 Civil service at the St. Joseph's Hospital, Wiesbaden

1990 – 1999 Dilthey-Gymnasium (grammar school), Wiesbaden

Practical experience

Jan 2009 – Jul 2009 Freelance Flash-, Flex-, Adobe Air-, Java- and Python frontend and backend software developer

May 2008 – Nov 2008 Master's thesis at the University of Applied Sciences Wiesbaden

- Title: „Conception, Realization and Evaluation of Multi-Touch Interfaces for Interactive Visualizations“
- Building a multi-touch table and develop an interactive visualization called Vispol for the police of the state of Hessen, Germany. Comprehensive qualitative user tests have been carried out.
- Technologies used: Adobe Flash Actionscript 3, Flex 3, Adobe Air, Flare Visualization toolkit.

Mar 2007 – Sep 2007 Second Life LSL Programmer for Media Ventures GmbH

Aug 2005 – Apr 2006 Honours thesis at the SAP AG

- Title: „Analysis and realisation of mobile business processes using interactive PDF forms on mobile devices“
- Mobile applications in Java for a PDA allowing the synchronisation of completed and

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uncompleted forms using SAP backend and attached business processes for automated processing and generation.

- Technologies used: SAP NetWeaver 2004, ABAP, Java, Windows Mobile, Adobe LiveCycle Designer, Adobe Document Services, Adobe Reader for Pocket PC

Oct 2004 –
Aug 2005

]init[AG, Mainz branch office

- Development and amendment of internet applications using the Java-based content management system WebGenesis
- Implementation of web-user-interfaces with XHTML, CSS and JavaScript conforming with accepted standards
- Technologies used: Java, SQL (Oracle), HTML, CSS, JavaScript, PHP

Mar 2004 –
Jul 2004

]init[AG, Berlin office

- Implementation of web-based geoinformatic applications based on Java EE, Oracle, HTML and JavaScript
- Implementation of accessibility-directives for existing web applications
- Technologies used: Java, SQL (Oracle), HTML, CSS, JavaScript, PHP

Freelance projects

May 2009

Implementation of a multi-touch and tangible user interface application for insurance companies and banks in order to facilitate explanation of complex financial products when consulting and planning financial necessities of clients for Mediaman

- Frontend programming in Flash
- Technologies: Adobe Flash

Apr 2009

Implementation of an Adobe Air multi-touch media viewer for Vertigo systems (<http://www.vertigo-systems.de>)

- Frontend programming in Flex and Adobe Air
- Technologies: Adobe Air, Adobe Flex, Actionscript 3

Feb 2009 –
Jan 2009

Implementation of a front- and backend geodata visualization with the Google Maps Flash API and Django

- Mobile tracking with Java ME application and Django Webservice
- Visualization with Google Maps Flash API
- Connecting front- and backend with pyAMF
- Technologies: Adobe Flex, Google Maps Flash API, Django, pyAMF, Java ME

Jan 2009

Implementation of a front- and backend multi-touch media viewer for Sensory Minds (<http://sensory-minds.com/>)

- Programming the frontend with Flash
- Programming the backend with Python Django.
- Connecting front- and backend with pyAMF
- Building a multi-touch tracking middleware for TUIO package integration with Java
- Technologies: Flash Actionscript 3, Python, pyAMF, Django, Java, TUIO
- More information: <http://johannesluderschmidt.de/lang/en-us/pf-design-media-installation/452>

Mar 2007 –
Dec 2007

Implementation of the 3D visualization TimeTube for the rescheduling of assay schedules in pharmaceutical laboratories at the University of Applied Sciences Wiesbaden

- Third-party funds project at the university.
- Users can rearrange laboratory schedules in 3D with haptic 3D input device.
- Technologies: Quest 3D, Phantom Omni, Lua

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- Dec 2006 Implementation of a Typo3 based website
- Composing XHTML, CSS utilising predetermined Screens
 - Implementation of a Typo3-template by means of TypoScript and PHP
 - Building a virtual server and transferring the page onto that server
 - Technologies used: Typo3, PHP, XHTML, CSS, JavaScript
- May 2006 –
Aug 2006 Building a Java ME traffic jam application
- Locating the current position and speed of a Bluetooth-GPS-Receiver by means of a mobile phone
 - Establishing whether the motor vehicle in which the mobile phone is located is in a traffic jam
 - Sending the location and speed of a traffic jam to a Java EE application over the internet using Web-Services
 - Visualising the traffic jam data via Google Maps
 - Technologies used: Java ME, Java EE, Javascript, MySQL, Tomcat, JavaScript

Languages

German Native language

English Fluent (TOEFL iBT score 106/120)

Awards

Jan 2008 Academic Travel Award of the Association of Laboratory Association (ALA) 2008

Publications

Luderschmidt, Johannes; Friess, Frederic; Doerner, Ralf: Der Virttable: Ein Multitouch- und Objektinteraktionstisch in einem preiswerten, mobilen und kompakten Setup; 8. Paderborner Workshop Augmented & Virtual Reality in der Produktentstehung, 2009 (accepted)

Luderschmidt, Johannes; Campos, Fabio; Gutmann, Jörg; Schäfer, Reinhold; Dörner, Ralf: Time Tube - Assist Scientists to Enhance Laboratory Scheduling; G.I.T Laboratory Journal, 7-8 2008, S.12-13, GIT Verlag, Darmstadt, 2008

TimeTube: Introducing Haptics in a 3D Visualization Technique for Grasping Time-Related Data in a Human Computer Problem Solver; Jörg Gutmann, Fabio Campos, Johannes Luderschmidt, Ralf Dörner, Reinhold Schäfer; The Journal of Three Dimensional Images Vol. 22, No.2 Pages: 49-54 June, 2008

Luderschmidt, Johannes; Campos, Fabio; Gutmann, Jörg; Dörner, Ralf; Schäfer, Reinhold: TimeTube: A Haptic 3D Visualization Technique for Assisting Laboratory Staff in Scheduling Tasks; Proceedings of LabAutomation 2008, p. 139, Palm Springs, USA, 2008

Gutmann, Jörg; Campos, Fabio; Luderschmidt, Johannes; Dörner, Ralf; Schäfer, Reinhold: TimeTube: Introducing Haptics in a 3D Visualization Technique for Grasping Time-Related Data in a Human Computer Problem Solver; 10th International Conference on Human and Computers, Düsseldorf / Tokio, 2007