Martin Stoffers

Master Thesis

Title	*Trustworthy Provenance Recording using a blockchain-like database*
Supervisors	Dr. Michael Martin, Andreas Schreiber

Bachelor Thesis

Title	*Vergleich von Lastverteilungsmechanismen unter Einsatz der Messaging-Protokolle ZeroMQ und AMQP*
Supervisors	Prof. Dr.-Ing. Thomas Meier, Prof. Dr. Mathias Krause
Translation	Comparison of load distribution mechanisms of the message passing protocls ZeroMQ and AMQP

Education

2014 – 2017	**Master of Science, Computer Science**, *University Leipzig*, Leipzig, *2.0*
2014 – 2011	**Bachelor of Engineering, Communication and Information Technology**, *Hochschule für Telekommunikation Leipzig (HfTL)*, Leipzig, *1.4*
2010 – 2011	**Technical Diploma**, *Fachoberschule und Berufsfachschule Dr. P. Rahn & Partner*, Leipzig, *1.3*
1998 – 2001	**Apprenticeship, Communication and Electronics Technician**, *Karstadt Warenhaus AG*, Unna, (Focus: Information Technology)

Awards

2014	**IfKom Ingenieurpreis 2014**, *IfKom - Ingenieure für Kommunikation e.V*, Leipzig Awarded for outstanding work in the field of applied telecommunication informatics

Languages

German	Native Speaker
English	Advanced Fluency

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Experience

Since 2017 **Research Scientist**, *German Aerospace Center (DLR),*
Institut for Software Technology, Dept. Intelligent and Distributed Systems,
Cologne

2016 – 2017 **Research Assistant**, *German Aerospace Center (DLR),*
Institute for Software Technology, Dept. Intelligent and Distributed Systems,
Cologne
Concept and Design of a W3C PROV Model for the BACARDI prototype.

2015 – 2016 **Research Assistant**, *Max Planck Institut for Human Cognitive and Brain Sciences,*
Dept. Neuroscience, Leipzig
Task programming in MatLab to support research projects at a BKIN KINARM Exoskeleton Lab.

2015 **Research Assistant**, *Forschungs- und Transferzentrum Leipzig e.V.*, Leipzig
Developing a Django-based Web application to automate and control measurement tasks in an EMC laboratory.

2013 – 2014 **Student Assistant**, *Hochschule für Telekommunikation Leipzig (HfTL)*, Leipzig
Evaluation and deployment of an automated source code inspector and linter (Praktomat).

2013 **Student Assistant**, *Hochschule für Telekommunikation Leipzig (HfTL)*, Leipzig
Tutor for Java.

2012 **Student Assistant**, *Hochschule für Telekommunikation Leipzig (HfTL)*, Leipzig
Tutor for C.

2005 – 2010 **Facility Manager**, *DHL Solutions Retail GmbH*, Unna
Planing, maintenance, operation, and extension for fire alarm systems, intruder alarm systems, general alarm systems, telephone systems and, camera systems and access control systems.

2002 – 2005 **Facility Manager**, *Karstadt Warenhaus AG*, Unna
Before amicable take-over by DHL Solutions Retail GmbH

1998 – 2001 **Apprenticeship, Communication and Electronics Technician**, *Karstadt Warenhaus AG*, Unna
Subject: Information Technology

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Projects

Since 2022	**Awesome lists for RSEs**, *Maintainer* `https://github.com/hifis-net/awesome-rse`
Since 2021	**HIFIS Consulting and Eductation** `https://hifis.net`
Since 2021	**RSE Workshop Materials**, *Creating workshops concepts and materials for RSE training's* `https://gitlab.com/hifis/hifis-workshops`
Since 2016	**BACARDI**, *A space debris software developed at DLR*
Since 2015	**Eventphone**, *Supporting events related to the CCC e.V community with telephone networks* `https://eventphone.de/blog`
2011 − 2019	**Shownot.es**, *A collaborative platform for collecting Shownotes of Podcasts* `https://github.com/shownotes`

Soft Skills

Mentoring

Since 2022	**Supervision of a student assistants**
Since 2021	**Supervision of a students in DLR's integrated degree program**
2019	**Supervision of internships**

Team Development

Since 2018	**Organization and moderation of project meetings and workshops**, *DLR*
Since 2017	**Establishing processes for software development and change management for scientifc software engineering projects**, *DLR*

Advanced training

2019	**TheCarpentries - Instructor Training**, Online
Since 2017	**Various training's**, *DLR*, Cologne Topics: Scientific writing, Moderating workshops, Tool assisted software development, Writing for public relations

Volunteering

2000 − 2010	**Volunteer fire brigade**, *Feuerwehr Fröndenberg/Ruhr*

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Skill matrix

	basic knowledge		extensive project experience
■□□□□	basic knowledge	■■■□□	extensive project experience
■■□□□	intermediate knowledge with some project experience	■■■■□	deepened expert knowledge
		■■■■■	expert / specialist

	Level	Skill	Years	Comment
Language:	■■■■□	Python	11	*My every day language for the past years*
	■■■□□	LaTeX	10	
	■■□□□	C++	1	
	■■□□□	C	6	
	■■□□□	Java	6	
Operating Systems:	■■■■■	Linux	20	*Professional and private use*
	■■■□□	Windows	20	
Methods	■■■□□	Agile Development	6	
	■■□□□	ECSS Standard	1	
Tools and Software	■■■■□	Microsoft Office Products	6	
	■■■■■	Commandlines(e.g. bash)	20	
	■■■■■	Commandline tools	20	
	■■■■■	CI/CD	4	
	■■■■□	Jetbrains IDEs	8	
	■■■□□	AutoCad	3	

Interests and Hobbys

Flying	Flying glider planes at Luftsportgruppe Menden e.V.
Telephone Systems	Operating and providing cordless and VOIP telephone systems at events associated with the Chaos Computer Club (CCC)

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Publications

C. Haupt and M. Stoffers, "Roles in research software engineering (rse) consultancies," in *Research Software Engineers in HPC (RSE-HPC-2021)*, November 2021.

M. Stoffers, L. Kurnatowski, T. Sonnekalb, and A. Schreiber, "Automated, provenance-driven security audit for git-based repositories," in *Software Product Assurance Workshop*, October 2021.

L. Kurnatowski, M. Stoffers, and C. Haupt, "Provenance based software dashboards," in *Workshop on the Science of Scientific-Software Development and Use*, 2021.

L. von Kurnatowski, M. Stoffers, M. Weigel, M. Meinel, Y. Wasser, K. Rack, and H. Fiedler, "Scientific software engineering: Mining repositories to gain insights into bacardi," in *2020 IEEE Aerospace Conference*, pp. 1–10, August 2020.

C. Hoyer-Klick, U. Frey, H. Gardian, M. Blesl, F. Kattelmann, S. Hellmann, J. Frey, L. Hülk, G. Luderer, M. Pehl, A. Giannousakis, M. Schroedter-Homscheidt, F. Drahtschmidt, L. von Bremen, P. Kuckertz, C. Haupt, and M. Stoffers, "Data infrastructure for energy system models," in *OpenMod*, January 2020.

M. Stoffers and M. Meinel, "Open source im bacardi projekt," in *14th Free and Open Source Software Conference (FrOSCon)*, August 2019.

M. Stoffers, M. Meinel, M. Weigel, M. Siggel, H. Fiedler, K. Rack, and Y. Wasser, "Bacardi: A system to track space debris," in *ESA NEO and DEBRIS DETECTION CONFERENCE - EXPLOITING SYNERGIES -*, February 2019.

H. Fiedler, J. Herzog, B. Hofmann, R. Kahle, M. Meinel, M. Prohaska, K. Rack, T. Schildknecht, M. Siggel, M. Stoffers, L. Kurnatowski, Y. Wasser, and M. Weigel, "Smartnet™ and bacardi," in *IAC 2019*, 2019.

M. Stoffers, "Trustworthy provenance recording using a blockchain-like database," Master's thesis, Leipzig University, March 2017.

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