Hendrik **Sollich**

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Education

Diploma Thesis: *Exploration of 4D Data with Multiple Heterogeneous Devices*

TU Dresden

Dresden, Germany

2016

This thesis explores interaction techniques to enable the exploration of complex 4D data sets using natural user interfaces. The technology is based on libavg, which was also employed for study thesis. The 4D datasets are SPIM imagery, by courtesy of MPI-CGB.

This thesis integrates two open source projects: `http://github.com/libavg` and `https://github.com/bigdataviewer`

Currently work in progress.

Study Thesis: *Supporting Sensemaking using Wall-Sized Displays and Tablet Devices*

TU Dresden

Dresden, Germany

2014

This thesis discusses several interaction design concepts, which are meant to support different sensemaking subtasks. A multi-device prototype application has been developed, which uses a wall-sized multitouch display and handheld devices. combining familiar features of an active reading application with a document collection- and exploration- visualization for wall sized displays.

byproduct: `http://github.com/hoodie/libavg_pdf`

Computer Science

Technische Universität Dresden

Dresden, Germany

2008 - 2016

- Microkernel-Construction, Microkernelbased Operating Systems, Distributed Operating Systems
- Security & Cryptography, Cryptography & Crypto Analysis, Steganography and Multimedia-Forensic
- Internet- & Web-Applications, Web- & Multimedia Engineering
- *Practical Labs:*
  Web- & Multimedia Engineering → RubyOnRails based Webservice,
  Cryptography & Cryptoanalysis → Handson with differnt encryption algorithms,
  Advanced User Interface Engineering → a painting application for multitouch-wall + sleeve display,
  Microkernel Based Operating Systems → basic userland for L4 Microkernel
- *Minor:* Musicology

Alternative Service

Deutsches Rotes Kreuz (german red cross)

Dessau, Germany

October 2007 - June 2008

Abitur

Liborius Gymnasium

Dessau, Germany

2007

Final Grade: 2.1

Exchange Year

Collins Hill High School

Suwanee, GA

2003

Junior Year

Relevant Experience

Open Source

Released and Contributed to Libraries

crates.io

2015-2016

notify-rust, datetime, clap, nom, iso8601, open-rs, exa, yaml-rust, rust-osc, prettytable, datetime parser benchmarks, string concatenation benchmarks...

UserGroup
Dresden
SMALL Started Rust UserGroup
2016
   tutoring novice and advanced learners

Tutor
TU Dresden
Software Technology Chair
2011, 2012, 2014
   tutoring student-teams in developing a RubyOnRails or Spring.io based Webapplications

Tutor
TU Dresden
Operating Systems Chair
2013, 2015
   tutoring students developing a strategy Game ai in c++

Student Assistent
TU Dresden
Institute for Complex Nano Materials
2010
   Development of a Symfony based application for internal use

Internship
Leipzig, Germany
PC Ware
2008
- Webdevelopment with ASP.net

Skills

Languages	German	mother tonge
	English	fluent
	French	highschool level
Programming Languages	Ruby, Rust, Python, C++, Javascript, Coffeescript, Bash, Java, C#, PHP	
Web Development	Ruby on Rails, Express, ASP.net, Symfony	
Native Development	LibAVG, Qt, Gtk+, CLI-Tools in Ruby or Rust, Android	
Tools	vim, git, make, rake, cargo, inkscape, kdevelop, more	

Volunteer Experience

Chairman Studenteninitiative IZ e.V.
TU Dresden
Computer Science Faculty
2009 - 2013

Member Studenteninitiative IZ e.V.
TU Dresden
Computer Science Faculty
2008 - present
   The association runs the studente café ascii in the faculty of computer science. The ascii strives to connect social nerds of all ages, by offering a gathering place for students and staff to socialize. We offer a variety of coffee specialties and lemonades. We also provide in-house catrings on request.

Conferences

Visitor
Hamburg, Germany
Chaos Communication Congress, 32C3
December 2015

Visitor
Dresden, Germany
Datenspuren
2009 - 2015

Visitor
Leipzig, Germany
Libregraphics Meeting
April 2014

Visitor
Berlin, Germany
Chaos Communication Congress, 28C3
December 2011

Personal Interests

OpenSource	Taking strong interest the development of FLOS Software and Standards Including: Mozilla Firefox, Rust Language, XMPP Protocols, KDE, Archlinux
Music	Guitar: Fingerpicking & Jazz Improvisation Piano: Learner
Sports	Cycling, Ultimate Frisbee, Juggling
Reading	Juli Jeh - Corpus Delicti, James A Michner - Drifters, Douglas Adams - Hitchhikers Guide to the Galaxy