

CURRICULUM VITAE

Gernot Christian WALZL, Ph.D.
Grimmgasse 14
8020 Graz
Austria

gernot.walzl@gmx.at
<http://www.gernot-walzl.at/>

Date of birth: 1984-08-20
Place of birth: Wolfsberg, Austria
Religion: Lutheran A.B.



Professional Experience

EXIAS Medical GmbH

2017-10 – present **Team Leader Software Development**
2016-02 – 2017-10 **Senior Software Engineer**
Responsible for the human machine interface (incl. GUI)
Development for embedded linux: C++, Qt 5, Bash, C
Coordination of suppliers and external resources
Mentor of colleagues

Graz University of Technology

2011-07 – 2016-01 **Project Assistant**
At the Institute for Theoretical Computer Science
Research in the field of Computational Geometry
Implementation in C++, boost, OpenGL
Organizing workshops

Virtual Vehicle Research Center

2007-07 – 2009-01 **Software Developer**
Member of an interdisciplinary team
MASDA: Measurement- and Simulation Data Analysis
Developed as eclipse RCP in Java

Schwing GmbH

- 2004 – 2010 **Software Developer**
During semester breaks, software projects under self-responsibility
- 2009 *ZeichnungsArchiv*: Archive of constructional drawings (Java)
 - 2007 *ACLAnalyzer*: Inspect access control lists (Java)
 - 2007 *Personaleinteilung*: Automated shift schedule (Java)
- 2006 – 2010 *anwesenheit*: Web interface for attendance recorder (PHP)
- 2006 – 2007 *EDVInv*: Inventory tool (Java)
- 2004 *QM-Hydraulikzylinder*: Testing bench for hydraulic cylinders (Simatic S5, Visual Basic 6, Microsoft SQL)

w&p Transport GmbH

- 2005 Freight invoicing application (PHP, MySQL)

Education

- 2011-07 – 2016-01 **TU Graz**
Doctoral School of Computer Science
In the field of Computational Geometry
- 2008-02 – 2011-06 **TU Graz**
Master's degree in Information and Computer Engineering
Specialization: Algorithm Design
Modelling, Simulation and Control
- 2004-10 – 2008-02 **TU Graz**
Bachelor's degree in Information and Computer Engineering
- 1998-09 – 2003-06 **HTL Wolfsberg**
Mechanical Engineering
- 1990-09 – 1998-07 **Primary and secondary school in St. Stefan**

Miscellaneous

- 2017-07 Certified Scrum Master (software project management)
- 2017-01 Certified Scrum Product Owner
- 2003-07 – 2004-02 Austrian armed forces

Driver's license for cars and trucks.

Hobbies: IT security, open source, economy, finances.

Open Source

- 2016 *sbopkg gui*: GUI for sbopkg, a package manager for Slackware Linux (Python, PyQt 4)
- 2008 *Mat4J*: Matlab for Java (C, Matlab, Java)

Scientific Work

- [1] Franz Aurenhammer and Gernot Walzl. Straight skeletons and mitered offsets of nonconvex polytopes. *Discrete & Computational Geometry*, pages 1–59, 2016.
- [2] Gernot Walzl. *Straight Skeletons - From Plane to Space*. PhD thesis, Graz University of Technology, 2015.
- [3] Franz Aurenhammer and Gernot Walzl. Polytope Offsets and Straight Skeletons in 3D. In *Proc. 30th Annual Symposium on Computational Geometry SoCG'14*, Kyoto, 2014.
- [4] Franz Aurenhammer and Gernot Walzl. Structure and computation of straight skeletons in 3-space. In *Proc. 24th International Symposium on Algorithms and Computation ISAAC'13*, pages 44–54, Hong Kong, 2013.
- [5] Franz Aurenhammer and Gernot Walzl. Three-dimensional straight skeletons from bisector graphs. In *Proc. 5th International Conference on Analytic Number Theory and Spatial Tessellations*, Kiev, Ukraine, 2013.
- [6] Gernot Walzl. Stochastische Rekonstruktion der 3-dimensionalen Mikrostruktur von Lithium-Ionen-Zellen. Master's thesis, Graz University of Technology, 2011.
- [7] Gernot Walzl. Implementation of Hereditary Convex Structures. Technical report, Graz University of Technology, 2010. Implementation: http://gernot-walzl.at/About/Scientific_Work/hcs-20101013.tar.gz.
- [8] Peter Teufl, Udo Payer, Michael Amling, Martin Godec, Stefan Ruff, Gerhard Scheikl, and Gernot Walzl. InFeCT - Network Traffic Classification. In *Networking, 2008. ICN 2008. Seventh International Conference*, pages 439–444. IEEE, 04 2008.
- [9] Gernot Walzl. Klassifizierung mit Self-Organizing Maps. Technical report, Graz University of Technology, 01 2008. Implementation: http://gernot-walzl.at/About/Scientific_Work/iaik.som-20071108.tar.gz.