Curriculum Vitae

Dipl.-Ing. Dr.techn. Gernot Christian Walzl
Grimmgasse 14
8020 Graz, Austria

gernot.walzl@gmx.at
https://www.gernot-walzl.at/

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

Professional Experience

Austrian Health Insurance Fund (ÖGK)

2025-02 – present   Department IT Management and IT Organisation

EVK DI Kerschhaggl GmbH

2020-07 – 2025-01   **Head of Data Processing**
Functional and disciplinary leadership of the team *data processing*
Optimization of development processes
Requirements analysis and definition of work packages
Scheduling and resource planning
Offer preparation for customized software solutions
Software architecture and development in C++
Developed Products
ALPHA: Real-time analysis of near-infrared spectra
Stream Supervisor: Visualization of material streams

Infineon Technologies Austria AG

2019-06 – 2020-06   **Software Product Owner**
In the field of ToF sensors for 3D cameras
Stakeholder management
Requirements analysis
Scheduling and resource planning
Acceptance of implemented software components

EXIAS Medical GmbH

2017-10 – 2019-05	**Team Leader Software Development**
2016-02 – 2017-10	**Software Engineer**
	Technical lead of the software development group
	Coordination of suppliers and external resources
	Software development for embedded Linux: C++, Qt 5, Shell, C
	Process development based on Scrum and IEC 62304
	Recruiting of software developers
	Developed Products
	e|1 Analyzer: System software for in vitro diagnostics

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
	Software development as Eclipse-based application in Java
	Developed Products
	MASDA: Measurement- and Simulation Data Analysis

Schwing GmbH

2004 – 2010	**Software Developer**
	During semester breaks
	Realization of software projects under self-responsibility
	Developed Products
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**

Trainings

2019-11	Automotive Functional Safety Professional (ISO 26262)
2017-09	Failure Mode and Effects Analysis (FMEA)
2017-07	Certified Scrum Master (software development process)
2017-01	Certified Scrum Product Owner

Hobbies

- Open source software
  - 2016   *sbopkg gui*: GUI for sbokg, a package manager for Slackware Linux (Python, PyQt 4)
  - 2008   *Mat4J*: Matlab for Java (C, Matlab, Java)
- IT security
- Economy & finances
- Mountain biking

Miscellaneous

- Austrian armed forces: 2003-07 – 2004-02
- Driver's license for cars and trucks

Scientific Research

[1] Franz Aurenhammer and Gernot Walzl. Straight skeletons and mitered offsets of nonconvex polytopes. *Discrete & Computational Geometry*, 56:743–801, 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_Research/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 *Seventh International Conference on Networking (ICN 2008)*, pages 439–444, Cancun, Mexico, 04 2008. IEEE.

[9] Gernot Walzl. Klassifizierung mit Self-Organizing Maps. Technical report, Graz University of Technology, 01 2008. Implementation: `http://gernot-walzl.at/About/Scientific_Research/iaik.som-20071108.tar.gz`.