

# 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

### EVK DI Kerschhagl GmbH

2020-07 – present **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 sbopkg, 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](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](http://gernot-walzl.at/About/Scientific_Research/iaik.som-20071108.tar.gz).