

Summary

Kristof Meixner holds a PhD in Computer Science since 2024 and a Master’s degree in Business Informatics since 2018 from TU Wien, Austria, where he is currently a Postdoctoral Researcher in the Software Engineering research unit. Despite experiencing an accident in 2000 resulting in a spinal cord injury, making him dependent on a wheelchair, after a break, he resumed in 2003 and successfully completed his studies. His PhD research explored model-based software product line engineering for cyber-physical production systems, addressing the integration of interdependent models for products, processes, and resources. His work focuses on advancing software engineering by developing innovative methods, tools, and techniques to create reliable, reusable systems that improve quality, resilience, and user experience. With a strong foundation in empirical research methods, his expertise spans software and information systems engineering. He is an active TU Wien member and a Scientific Staff Council representative at the Faculty of Informatics. As a person with a disability, he also served as a representative on the TU Wien Diversity Team for the Diversitas 2016 Award. Alongside his studies, Kristof gathered professional experience while working for several years as a lead developer on an open-source project specializing in software architecture, development, and quality. This combination of research and industry expertise drives his contributions to bridge the gap between theoretical innovation and real-world application in software engineering.

Publications:	87 peer-reviewed publications in journals (JSS, AT, ...) and conferences (SPLC, ETFA, ...), Citations: 754, h-index: 16, i-index: 27
Teaching:	6 lectures partly with exercises, 9 supervised theses
Leadership:	Lead software developer for the software of CDL-SQL, 9 supervised theses
Industry Projects:	Collaboration with logi.cals in the CDL-FLEX, Collaboration with STIWA, SWQL, VW, Neumann in the CDL-SQL over up to 7 years
Open-Source Beiträge:	OpenEngSB, Karaf, ops4j, JabRef, smooks

Education

TU Wien <i>PhD in Computer Science</i> <ul style="list-style-type: none">Thesis: Efficient Reuse & Variability Management for Cyber-Physical Production System Families	Vienna, Austria 2018 – 2024
TU Wien <i>MSc in Business Informatics</i> <ul style="list-style-type: none">Thesis: Model Driven Systems Configuration - Improving the Efficiency & Quality of Engineering Process Assembly based on Variability Modeling	Vienna, Austria 2011 – 2018

Experience

Postdoctoral Researcher <i>Institute of Information Systems Engineering, TU Wien</i>	Dec 2024 – present Vienna, Austria
Researcher <i>CDL for Security & Quality Improvement in Production Systems, TU Wien</i>	Mar 2018 – Dec 2024 Vienna, Austria
Software Developer <i>CDL for Security & Quality Improvement in Production Systems, TU Wien</i>	Jan 2018 – Feb 2018 Vienna, Austria
Software Consultant <i>logi.cals</i>	Jan 2017 – Dec 2017 St. Pölten, Austria
Software Developer <i>Quality Software Engineering Group, TU Wien</i>	May 2017 – Dec 2017 Vienna, Austria
Software Developer & Lead Software Developer <i>CDL for Flexible Automation Systems</i>	Jan 2010 – Dec 2016 Vienna, Austria
Freelancer <i>Various customers</i>	Sep 2003 – present Remote, Vienna, Austria
ICT Consultant <i>Kleintierklinik Breitensee</i>	Sep 2003 – Jan 2019 Vienna, Austria
Software Engineering Tutor <i>Quality Software Engineering Group, TU Wien</i>	Oct 2007 – Mar 2011 Vienna, Austria
Student Trainee <i>Siemens EZE – Quality Management</i>	Apr 2000 – Aug 2000 Vienna, Austria
Internship <i>Siemens TCN</i>	Feb 2000 Vienna, Austria

Publications

For an extensive list of publications see GScholar:
https://scholar.google.com/citations?user=hdsHN_EAAAAJ

Five most important publications

- Fadhlillah et al.: *Managing Control Software Variability in Cyber-Physical Production Systems: The V4rdiac Approach*. Journal of Systems and Software, 2025.
- Meixner et al.: *Variability modeling of products, processes, and resources in cyber-physical production systems engineering*. J. of Systems and Softw., 2024.
- Meixner et al.: *Organizing reuse for production systems engineering with capabilities and skills*. Automatisierungstechnik, 2023.
- Meixner et al.: *Patterns for Reuse in Production Systems Engineering*. Int. J. Softw. Eng. Knowl. Eng., 2021.
- Meixner et al.: *A Domain-Specific Language for Product-Process-Resource Modeling*. IEEE ETFA, 2021.

Faculty Service

Research Unit Representative

Software Engineering Research Unit, TU Wien

Oct 2017 – present

Vienna, Austria

- Representative for the Research Unit Software Engineering in the Scientific Staff Council

TU Wien Diversitas Representative

TU Wien

Dec 2016

Vienna, Austria

- Representative in TU Wien Diversity Team for the Diversitas 2016 Award¹

Scientific Community Service

Organizer

- International Workshop on Variability and Evolution of Software-Intensive Systems (VariVolution) at SPLC (2021, 2022, 2023)
- Special Session on Capability- and Skill-based Engineering in Manufacturing at ETFA (2021, 2022, 2023, 2024)
- Special Session on Software Engineering for Cyber-physical Production Systems at ETFA (2023, 2024)
- Feature-oriented Software Development Meeting (FOSD) (2021)

Journal Reviewer

- Expert Systems with Applications (2023)
- Journal of Cleaner Production (2023)
- Journal of Systems and Software (2022, 2024)
- International Journal on Software Engineering and Knowledge Engineering (2021)
- Automatisierungstechnik (2021, 2023, 2024)

Program Committee Member

- IEEE International Conference on Emerging Technologies and Factory Automation (ETFA) (2020-2024)
- International Systems and Software Product Line Conference (SPLC) Artifact Track (2021, 2022, 2023)
- International Conference on Software Engineering & Knowledge Engineering (SEKE) (2022)
- IEEE International Conference on Business Informatics (CBI) (2022, 2024)
- Software Quality Days (SWQD) (2019, 2020, 2021, 2023)

Teaching Experience

Lecturer in “Advanced Software Engineering”

Master’s course, TU Wien

2018 – present

Vienna, Austria

Lecturer in “Software Engineering and Project Management”

Bachelor’s course, TU Wien

2018 – present

Vienna, Austria

Lecturer in “Seminar in Software Engineering”

Master’s course, TU Wien

2018 – present

Vienna, Austria

Lecturer in “Scientific Research and Writing”

Bachelor’s course, TU Wien

2020 – present

Vienna, Austria

Guest Lecturer at “Convide Lecture Series”

Master’s course, KIT

Summer term 2024

Karlsruhe, Germany

¹Diversitas 2016 Award: <https://www.tuwien.at/tu-wien/aktuelles/news/diversitas-2016-auszeichnung-fuer-tu-wien>

- Convide Lecture Series – Product Lines Beyond Software – How Cyber-Physical Production Systems Challenge Software Product Line Approaches²

Lecturer in “Business Intelligence”

Master’s course, TU Wien

Winter term 2020

Vienna, Austria

Lecturer in “Business Process Modeling”

Bachelor’s course, TU Wien

Winter term 2020

Vienna, Austria

Advisees

Diana Vysoka

2024

Master’s thesis, TU Wien

Vienna, Austria

- Multi-domain Change Impact Analysis for Agile Cyber-Physical Production Systems Engineering

Kevin Knecht

2023

Bachelor’s thesis, TU Wien

Vienna, Austria

- Information Propagation in Multi-View Graphs Applications in Cyber-Physical Production Systems Engineering

Christoph Burger

2022

Master’s thesis, TU Wien

Vienna, Austria

- Model difference analysis for CPPS engineering models with variability

Victor Olusesi

2023

Bachelor’s thesis, TU Wien

Vienna, Austria

- A Transformation Framework for CPPS Artifacts into PPR-DSL Translations

Philp Liszt

2021

Bachelor’s thesis, TU Wien

Vienna, Austria

- Handling Variability in Production Systems Engineering - Feature and Resource Identification from Product Process Resource Model Variants

Xuan Phuong

2021

Bachelor’s thesis, TU Wien

Vienna, Austria

- Migration of Industrial Engineering Databases - A Case Study in a Cyber-Physical Production System Setting

Jakob Decker

2020

Bachelor’s thesis, TU Wien

Vienna, Austria

- A DSL to Store and Evaluate PPR Assembly Sequences for Multi-Disciplinary Engineering

Hannes Marcher

2020

Bachelor’s thesis, TU Wien

Vienna, Austria

- PPR Consistency Dependency Language for CPPS Engineering

Michael Wapp

2019

Master’s thesis, TU Wien

Vienna, Austria

- Performance of paradigms for storing and querying multidisciplinary engineering models

Extracurriculars

ICT Shadow

Nov 2015

UN Shadowing Programme 2015

Vienna, Austria

- UN Shadowing Programme 2015 at the International Atomic Energy Agency Vienna

²Convide Lecture Series: <https://www.sfb1608.kit.edu/206.php>

Technical Skills

Programming Languages: Java, JavaScript, Python, Groovy, PHP, Bash, XML/HTML, JSON, UML

IDEs: Eclipse, IntelliJ, VS Code

SCM: Git, SVN, Mercurial

Build Tools: Maven, Ant

Testing and CI: JUnit, Selenium, Jenkins

Databases: MySQL, PostgreSQL, HSQLDB, H2

Container: Apache HTTP, Tomcat, Jetty

Operating Systems: Linux (Ubuntu, Debian), Microsoft Windows (7/10)

Productivity: Confluence, JIRA, Microsoft Office (Word, Excel, Powerpoint), Libre Office (Writer, Calc, Impress), Latex, Visio, Dia **Methods:** Scrum, Pair programming, TDD

Libraries: OSGI, Apache Karaf, Blueprint, pax-exam, Apache Wicket, ActiveMQ, JGit, Lucene, FreeMarker, Groovy, Google Guice, Smooks, Docker, Vagrant

Soft Skills

Languages: German (native), English (proficient), Italian (intermediate)