

KASIMIR FORTH

Research-driven innovator linking academia and industry, guiding people and projects in digitalization for a sustainable built environment with critical thinking, organizational and management skills

Date of Birth: 16. May 1992
Nationality: Germany, Croatia
E-Mail: kasimir.forth@posteo.de
Website/ LinkedIn: kasimirforth.com / [LinkedIn](#)



EDUCATION

Dr.-Ing.
09.2021-12.2024
„Magna cum laude“

TECHNICAL UNIVERSITY OF MUNICH

Graduate School, TUM School of Engineering and Design, Department of Civil and Environmental Engineering
Dissertation title: „BIM-based semantic enrichment for environmental analyses using Large Language Models“

Research stay
04.2023-06.2023

CHALMERS UNIVERSITY OF TECHNOLOGY, GOTHENBURG, SWEDEN

Visiting Researcher at the „Sustainable Building Research Group“, Dr. Alexander Hollberg & Prof. Holger Wallbaum

M.Sc.
10.2015 – 04.2018
GPA: 1.3

TECHNICAL UNIVERSITY OF MUNICH

M.Sc. Energy-efficient and Sustainable Building, Civil, Geo and Environmental Engineering and Architecture
Master thesis: „BIM-integrated Life-Cycle Assessment“ (Grade 1.0), Highest GPA (1.3) in the M.Sc. program

Erasmus+ exchange
10.2014 – 02.2015

POLITECHNIKA KRAKOWSKA, POLAND

Faculty of Civil Engineering and the Faculty of Architecture

B.Sc.
10.2011 – 09.2014
GPA: 2.7

TECHNICAL UNIVERSITY OF MUNICH

B.Sc. Engineering Science, Munich School of Engineering
Bachelor thesis: „Skintecture - Analysis of a Bio-inspired Variable Control of Air and Heat-permeability“ (Grade:

PROFESSIONAL EXPERIENCE

Since 10.2024
cea.ibi.ethz.ch

CHAIR OF CIRCULAR ENGINEERING FOR ARCHITECTURE, ETH ZÜRICH

Postdoctoral researcher

- Lead subproject of the SWIRCULAR consortium of academia in collaboration with industry companies
- Develop research of digital workflows enabling BIM- & graph-based circularity assessments
- Guide six PhD candidates and publish several journal and conference articles

04.2018 - 09.2024
ed.tum.de/loc

LEONHARD OBERMEYER CENTER, TECHNICAL UNIVERSITY OF MUNICH

Managing director

- Manage a research center of five professorships with industry (+15 companies), including member acquisition
- Coordinate events, lectures, and strategic research activities for 70+ researchers
- Develop new executive education formats and M.Sc. programs

01.2021 - 09.2024
cee.ed.tum.de/cms

CHAIR OF COMPUTATIONAL MODELING AND SIMULATION, TECHNICAL UNIVERSITY OF MUNICH

Research associate

- Develop research on semantic 3D models (BIM, point clouds) for sustainability assessments using AI
- Acquire and conduct several research projects
- Teach several lectures, seminars and interdisciplinary project and supervise 13 Master's thesis students

Since 06.2018
kasimirforth.com

FREELANCING CONSULTANT IN SUSTAINABLE BUILDINGS AND BIM

- Advise architects and engineers on energy design, green building certifications, and BIM use cases
- Consult on BIM-based LCA and material passports for employer's information requirements
- Deliver sustainability and digitalization expertise across architectural and engineering projects

PROFESSIONAL EXPERIENCE

- 06.2019 - 12.2020
ed.tum.de/pppe
- PROJEKTPLATTFORM ENERGIE + INNOVATION, TECHNICAL UNIVERSITY OF MUNICH**
Research associate
- Initiate applied research projects linking universities and the Bavarian construction industry
 - Coordinate activities with start-ups, SMEs, and the Center for Digital Technology and Management
 - Strengthen innovation capacity of SMEs in digitization and energy transition
- 05.2018 - 05.2019
arc.ed.tum.de/ari
- ARCHITECTURE RESEARCH INCUBATOR, TECHNICAL UNIVERSITY OF MUNICH**
Research associate
- Write research proposals (DFG, BMWi) on BIM, AI, and sustainable building design
 - Teach the course "BIM and Sustainability" at the Department of Architecture
 - Organize interdisciplinary workshops and innovation formats (e.g., Think.Make.Start, Design Thinking)
- 04.2015 - 04.2018
dreso.com
- DREES & SOMMER, ADVANCED BUILDING TECHNOLOGIES**
Working student and Masterand in Green Building and Energy Design
- Perform DGNB & LEED certifications, energy checks, and sustainability feasibility analyses
 - Conduct daylight and energy simulations, and develop indoor climate and façade concepts
 - Selected to the top 10% "Durchstarter" talent program and continued as freelancer after thesis

BOARD ACTIVITIES

- Since 03.2025
02.2024 - 02.2025
05.2023 - 04.2025
09.2022 - 09.2024
Since 06.2020
Since 09.2019
05.2019 - 10.2022
11.2018 - 12.2022
Since 10.2015
10.2016 - 09.2017
05.2010 - 09.2010
- Cirkla**, Member of Board of Directors
IEA BC Annex 91 Open BIM for Energy Efficient Buildings, Participation in workshops and strategic meetings
Runder Tisch GIS e.V., Member of the Advisory Boards
Sustainability task force at TUM, Initiator of a sustainability strategy and guiding the university strategy
Stadtbaustein e.G. München, Chairman of the Supervisory Board of the Housing Cooperative
VDI e.V. (Verein Deutscher Ingenieure), Member of standardization VDI 2552 Blatt 11.4 „BIM - Ökobilanzierung“
DGNB e.V. (Deutsche Gesellschaft für Nachhaltiges Bauen), Member and DGNB consultant for building and district certification, expert for Life Cycle Assessment, part of the expert group „Digitization and Sustainability“
buildingSMART e.V., Part of expert group „BIM und Nachhaltigkeit“
Cradle-to-Cradle e.V., Member and volunteer in the Munich Regional Group and conferences
Buddy-for-Refugee program, Technical University of Munich, Personal support of a refugee at TUM
European Youth Parliament, Participation at the national and international sessions in Germany and Latvia

AWARDS

- 2025
2024
2024
2023
2023
2022
2019
2018
- Hochschulpreis des Bayerischen Bauindustrie**: 2nd price in category „Circular and Regenerative Building“
Sustainable Industry Impact Award 2024 by TUM Institute for LifeLong Learning
Finalist DGNB Sustainability Challenge 2024 by DGNB eV. (category „Research“)
2x open BIM Awards by buildingSmart International (categories „Student Research“ & „Sustainability“)
BIM Champion 2023 by buildingSMART Deutschland (category Sustainability)
Thesis-in-3 competition: First place of the EC3 2022 three minute thesis competition
BIM Suhr Preis 2019: 2nd price for master thesis
VDI Preis 2018: Category master thesis

IT SKILLS

- BIM/ 3D software
Programming
Further
- Advanced: Autodesk Revit, IFC (IfcOpenShell, Solibri, IFC.js, Blender); Basics: ArchiCAD, Rhino
Advanced: Python, Dynamo, Grasshopper; Basics: CYPHER, SQL
LLM (SBERT fine-tuning, GPT), Computer Vision (SAG, YOLO), Graph Neural Networks (GraphSAGE, GAT)

LANGUAGES

- Profound
Basics
- German** (native), **English** (C1), **Croatian** (mother tongue)
French (B1), **Latin** (big latinum), **Turkish** (A2.1), **Polish** (A1), **Greek** (A1)