

Contact

Zurich
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alexandernwalzer (LinkedIn)
walzer.tech/ (Company)

Top Skills

Research
Technology Management
Entrepreneurship Development

Languages

German (Native or Bilingual)
English (Full Professional)
Italian (Professional Working)

Certifications

Fab(rication) Academy
Technology Entrepreneurship: Lab to Market
Paramedic (RS)
Australian Manufacturing Academy

Honors-Awards

End of Semester Exhibitions
Erasmus Exchange Scholarship
ABB Robotics Mobility Grant
Leonardo da Vinci Grant
BEYOND Building Barcelona exhibition award

Publications

Designing Robotically-Constructed Metal Frame Structures
Structural stay-in-place formwork for robotic in situ fabrication of non-standard concrete structures: A real scale architectural demonstrator
Mesh Mould: An On Site, Robotically Fabricated, Functional Formwork
Robotic AeroCrete - A novel robotic spraying and surface treatment

Alex Walzer

into Construction Tech+
San Francisco Bay Area

Summary

I am interested in entrepreneurship and open innovation in construction, currently looking for various stakeholders in construction tech to interview for my PhD research at ETH. Do you feel addressed? Lets get in touch, lose no time!

Experience

walzer.tech
Innovation Consultant
April 2019 - March 2022 (3 years)
Vienna, Austria

Full-stack AEC technology consulting services that include market research, product/system R&D paired with strategy and business development reports. Clients include design agencies, public and private research institutions, ConTech & SaaS Startups, Non-profit organizations and VC funds (20m USD AUM) in Europe and the US, as well as multinational construction industry conglomerates with >2 bn. € revenue/y. The main efforts are on strategy, risk mitigation and acceleration. Reach out to me and we will get stuff done!

RMIT University
IMCRC Research Fellow
January 2020 - December 2020 (1 year)
Melbourne, Australia

We use robotic vision systems and smart software user-interfaces to streamline the process between design and custom manufacturing. Based inside the Architectural Robotics Lab at RMIT School of Architecture and Design we are developing bespoke robotised processes for Australian SMEs, such as Wire-arc Additive Manufacturing (WAAM) Metal 3D Printing and Incremental Sheetforming (ISF) - we do this in close collaboration with UAP Company, UoWollongong, FIF and the QUT in Brisbane. This collaborative research is made possible by the Innovative Manufacturing Cooperative Research Centre (IMCRC) Design Robotics (A\$ 8m funding). Pro-active industry knowledge transfer is conducted through the Open Innovation

technology for the production of slender reinforced concrete elements

Mobile robotic fabrication beyond factory conditions: case study Mesh Mould wall of the DFAB HOUSE

Network, affiliated seminars, webinars and demos at the ARM Hub (Advanced Robotics for Manufacturing Hub).

ETH Zürich

NCCR Research Assistant

January 2016 - December 2019 (4 years)

Zurich, Switzerland

I worked at Gramazio Kohler Research / NCCR Digital Fabrication on Mesh Mould and the In-Situ Fabricator, incl. the NCCR dfabhouse 1:1 demonstrator at the Empa NEST building, tutoring in the Architecture BSc., MSc. and MAS Postgraduate Digital Fabrication Programme. I was a close collaborator with the ADRL, Disney Research Zurich's Computational Design and Manufacturing Group and Swiss Industry partners Zühlke, Schlatter, Bürgin 3D Creations. Other roles during this time included:

ETH Dean's Office StudentProjectHouse: Makerspace manager and freelance collaborator

ETH D-ARCH Rapid Architectural Prototyping Lab (RapLab): RA (Digital Prototyping)

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<http://gramaziokohler.arch.ethz.ch/> - <http://dfabhouse.ch/> - <http://www.dfab.ch/>
<https://raplab.arch.ethz.ch/> - <https://sph.ethz.ch/makerspace/>

Fab Lab Barcelona

FabLab Intern / Trainee

February 2015 - June 2015 (5 months)

Barcelona, Catalonia, Spain

R&D in both laaC and Valldaura Labs. Projects include the Smart Citizen Kit, a WikiHouse (built with AA students in a week) and an Open Source Deltabot (as part of MIT FabAcademy).

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Bau.Kunst DP & ecker.cc

Junior Architect

July 2009 - February 2012 (2 years 8 months)

Vienna, Austria

Design, planning and fabrication of projects in Eastern Austria, see: <https://www.ecker.cc/referenzen/>

Education

Stanford University

Visiting Doctoral Researcher, Civil Engineering · (September 2022)

ETH Zürich

Doctor of Science, Entrepreneurship for Digital Fabrication and Robotics in Construction · (2021 - 2024)

Technische Universität Wien

Master of Science (MSc) / Dipl.-Ing., Architecture, Spatial Planning · (2018)

Leopold-Franzens Universität Innsbruck

Bachelor of Science (BSc), Architecture · (2014)

RMIT University

Architecture · (2015)