

CURRICULUM VITAE

DOMER Bernd, Dr ès sc., ing. civil SIA

Date of birth : 03.09.1967
Nationality : Swiss and German
Marital status : married



- First mover in data analysis of numerical building representation, integrating environmental and project data, proposing a round-trip GIS-BIM-GIS, founder of the [MIC](#) research group.
- Development of research projects and management of interdisciplinary teams for large scale projects in construction and research.
- More than ten years of experience in teaching students of architecture and civil engineering at bachelor and master level.
- Well linked in the Swiss construction industry, in particular in the digital construction and project management domain.

PROFESSIONAL EXPERIENCE

Associate Professor, HEPIA Geneva, Head of the [inPACT](#) research institute (since april 2015)
Since June 2011

- Two accepted Innosuisse projects (total project sum approx. 1 Mio CHF per project) dealing with the integration of environmental and building data.
- Research projects in collaboration with the Geneva canton and Swisstopo, validating the feasibility of a digital construction permit as well as the BIM/GIS roundtrip.
- First BIM survey (2015) for the french speaking part of Switzerland.
- Organizer and co-chair of multiple conferences about digital construction, e.g. « eg-ice 2018 », « Conférence BIM 2019 ». The BIM event for 2020 will be held on-line in 2021.
- Teaching of numerical representation (BIM) to civil engineering students at EPFL and MSE.
- Co-founder, board member and teacher of the CAS for BIM coordination.
- Teaching of construction management and economy. Courses are taught to students in civil engineering and architecture, at a bachelor and master level. All teaching material has been newly developed. One course uses a « serious game » to allow students to experiment management strategies.
- Feasibility study of « Lean Management » tools for the management of construction projects of the federal swiss railways (SBB).

Head of the Project Services team Région Ouest, ISS FM Services SA
2008-2011

- Management of a team of 12 employees, active in suisse romande, for construction projects. (clients : UBS, Hewlett Packard, fonds de compensation AVS,...)
- Development and introduction of a construction project management book for all national branch offices
- Lecturer at HEIG-VD
- Scientific consultant for doctoral students at EPFL

Construction project manager TEKHNE SA, society for project management and consulting, general manager of TEKHNE Fribourg since 2007
2003-2008

- Project manager of multiple important construction projects in Suisse Romande: Ferring, St Prex ; Audemars Piguet & Cie, Le Brassus ; Projet « Boucle », extension and new construction of the ACPC in Fribourg, professional school and gym
- Management of interdisciplinary planner teams: optimization of costs, deadlines and quality of construction projects
- EPFL, scientific consultant for 3 doctoral students at the ENAC department of EPFL
- CTI project in collaboration with EPFL

Research engineer and doctoral student, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
1999-2003

- Principal research topics: optimization algorithms, application of artificial intelligence techniques to civil engineering structures
- Preparation of and execution of a Swiss National Science Foundation project
- Supervision of EPFL diploma students and contact person for multiple foreign students (India, Germany)
- Teaching of applied computer science to civil engineering students

Research assistant, Technische Universität Darmstadt (TUD), Germany
1997-1999

- Test and validation of a new fastening system for cantilever elements
- Teaching of structural engineering for concrete structures and finite element methods

Project manager, Philipp Holzmann AG, Frankfurt/Main, Germany
1992-1997

Construction site manager (1995-1997)

- Managed the renovation of a historic building (structure and façade)
- Claim manager for an important construction project (budget approx. 140'000'000 CHF)

Structural engineer, CAD and finite element specialist (1992-1995)

- Coordination of structural engineering activities for multiple construction projects
- Management of planner teams from 2 à 12 co-workers
- Specialist for CAD – modelling and structural calculation with finite elements.

EDUCATION

- Docteur ès sciences, EPF-Lausanne, thesis: "Performance enhancement of active structures during service lives" (2003)
- Civil engineer, (Dipl.-Ing), Ruhr-Universität Bochum, Germany (1992)

LANGUAGES

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| French : | excellent |
| German : | mother tongue |
| English : | excellent |
| Italian : | basic |

ACADEMIC AWARDS

- Best paper award « Journal of computing in civil engineering », ASCE (2003)
- Best presentation at the PhD Symposium (Munich) (2002)
- Price « Stifterverband für die Deutsche Wissenschaft », among the five best civil engineering graduates (1993)

ASSOCIATIONS

- Member of the « bâtir digital suisse » committee
- Committee member of the European Group for Intelligent Computing in Engineering (EG-ICE)

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