

Curriculum Vitae

Proposed Position : **Consultant**
Name of Firm : Skat, Vadianstrasse 42, 9000 St. Gallen, Switzerland
 Tel: +41 78 815 78 24 e-mail: daniel.wyss@skat.ch
Name of Staff : **Daniel Wyss**
Profession : Architect and Urban Development and Construction Industry Specialist
Date of Birth : 10th of April, 1975
Years with Firm : Since 2007
Nationality : Swiss

KEY COMPETENCIES

Daniel Wyss has 16 years of experience as architect, urban planner, programme manager and industry facilitator in the field of international development cooperation. He has been involved in sustainable urban development, energy efficient industry development, technology transfer, value chain development, skills and income generation, climate responsive building and settlement design, participatory slum upgrading and post-war/disaster reconstruction projects. He conducted and directed various assessments, studies and project evaluations in Asia, Africa, Latin America and Europe and launched or directed projects as resident project coordinator and team leader in Haiti East Africa (Rwanda, Burundi and DR Congo). His strength lies in context analyses, project design, programme coordination and the design, execution and monitoring of pragmatic implementation strategies. His technical expertise covers affordable and para-seismic housing, school and settlement design in formal and informal contexts and related supply chains and building material production technologies. As advisor and backstopper, he offered technical expertise and strategic and methodological support to public and private sector decision makers and implementation teams.

EDUCATION

- 2007** : Diplôme d'études supérieures spécialisées (DESS) UNIGE & UNIL écologique humaine « développement durable des espaces et sociétés à fortes contraintes », University of Geneva and University of Lausanne, Switzerland
2003 : Diplôme en Architecture IAUG/UNIGE, Institut d'Architecture, University of Geneva
1999 : Diplome HTL in Architecture, Zurich University of Applied Science, Switzerland
1995 : Swiss Federal Vocational Education Diploma as Construction Draftsman

FURTHER TRAINING

- 2007** : WATSAN-Certificate, University of Neuchâtel (Switzerland) and ICRC
2007 : Course on Earthquake resistant reconstruction, by Swiss Solidarity Fund
2001 : Courses on Good Urban Governance in South Asia, by the University of Geneva

LANGUAGES

	Speaking	Reading	Writing
German	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
French	Excellent	Excellent	Good

COUNTRY EXPERIENCES

Afghanistan, Burundi, Bosnia and Herzegovina, Czech Republic, DR Congo, Germany, Haiti, Indonesia, Kosovo, Nepal, Pakistan, Rwanda, Senegal, Serbia, South Africa, Sudan, Switzerland

EMPLOYMENT RECORD AND PROFESSIONAL EXPERIENCE

Skat Consulting, St. Gallen, Switzerland

Architect, Urban Development and Construction Industry Specialist

2007 - ongoing

Construction and Settlement Development:

Resident Project Coordinator and Lead Architect of the SDC Project PROECCO, promoting employment creation through the facilitation of the structural transformation of Construction Industry in **Rwanda, Burundi and DR Congo** 2012 - 2018

Responsibilities on construction and settlement development:

- Establishing 3 Construction Info and Service Centres, recruiting and training 3 local teams of engineers, economists and geographers
- Assessment of information, skills and service gaps in the local building supply chains, which are hampering the formal supply of affordable housing
- Developing an incremental parasismic construction systems (Swiss Cube) based on affordable local building materials. Target market: Affordable urban housing and schools, upgrading of informal settlements and reconstruction in high risk zones
- Preparing detailed pre-engineered standard designs for low-income home owners and small construction firms, as well as design-aids for planners to customise designs or to re-engineer variations of the above-mentioned "Swiss Cube" System
- Developing trainings material and users' manuals for medium-skilled construction professionals, such as masons, supervisors, engineers and construction inspectors
- Establishing 6 model buildings for incremental para-seismic construction in rural and urban contexts, that served as training and demonstration construction sites
- Supporting a research group from MIT Cambridge/Boston (Massachusetts Institute of Technology) in the construction of a rural house with the same construction system

External evaluation of all Switzerland funded shelter, housing and WASH projects in the flood affected zones of Pakistan (floods 2010), mandated by Swiss Solidarity. 2012

Launching a housing reconstruction project in Haiti, funded by Swiss Solidarity and HEKS Switzerland, establishing the field office in Petit Goâve, recruiting the local team, leading the beneficiary assessment and selection process, planning model houses and links and cooperation with relevant local institutions. (A mandate by HEKS Switzerland) 2011

Participation on a UN-Habitat workshop on urban planning and reconstruction in Haiti 2011

Post disaster needs assessment and identification of reconstruction projects in Haiti
Project drafting mission in Haiti and mapping of possible reconstruction zones in Petit Goave, (A mandate from HEKS, Switzerland) 2011

Construction and Slum Upgrading Advisor to local project implementation teams, funded by SDC and HEKS 2007- 2012

- Advisory, planning and backstopping services to the local Roma NGO, implementing a dweller driven slum upgrading project fostering and economic integration of the Roma community in Kosovo (a mandate by HEKS Switzerland, co-funded by SDC)
- Elaboration of a Guide for Municipal Authorities for participatory planning and implementation of upgrading measures in Roma Settlements in Serbia (an activity funded by Skat, HEKS Switzerland and SDC)
- Advisory, planning and backstopping services for four projects on dweller driven slum upgrading and economic integration of the Roma community in Serbia (a mandate by HEKS Switzerland, co-funded by SDC)

Planning support for local architects and engineers in developing a modular set of cost effective and environmental friendly construction system for a pilot application in a working-class estate in Kathmandu Nepal (part of an SDC mandate) 2008-2009

Appraisal of Construction Projects in cultural heritage sites in Czech Republic for the EEA (European Economic Area) Financial Mechanism Office (Subcontracted by the Swiss TPH). 2008

Various planning/design support activities on public infrastructures such as schools, health units and housing projects for various clients 2007-2013

Building material production:

Resident Project Coordinator and Lead Industry Development Facilitator of the SDC Project PROECCO, promoting employment creation through the facilitation of the structural transformation of Construction Industry in **Rwanda, Burundi and DR Congo** 2012-ongoing

Technical responsibilities (besides the overall project implementation responsibility):

- Detailed analyses of each country's construction and building material industry and the urbanisation dynamics (actual & future markets)
- Identification and transfer of environment and labour friendly building material production technologies, ranging from artisanal brickyards to medium scale factories.
- Field testing and optimising a large set of technologies in collaboration with the private sector, international experts, academia and local authorities
- Design and facilitation of the establishing and upgrading of more than 50 privately financed building material yards and brick factories including training of staff, of technical and financial service providers and raw material and spare parts suppliers
- Developing training curricula and training material for building material manufacturers and key service providers
- Support of national and local authorities in the development and implementation of sustainable policies on urbanisation and construction industry development
- Establishing of detailed maps on raw material and key stakeholder along the value chain, which are most relevant for sustainable urban expansion.

Brick sector analysis in **Rwanda and Burundi**, with focus on energy efficient brick production and alternatives for wood as main fuel for firing bricks. (Mandated by SDC) 2011

Brick sector analysis in **Sudan**, with focus on energy efficient brick production and the substitution of wood as main fuel for firing bricks. (Mandate by UNEP in partnership with ProACT Network) 2010

Desk Manager of a SDC financed project in **Pakistan**, piloting energy efficient brick kilns technologies.

Responsibilities:

- Recruiting and steering the local team of engineers
- Cooperation with local entrepreneurs/investors and governmental institutions
- Coordinating international brick experts for developing locally adapted production techniques
- Monitoring of the economic performance of traditional and modern brick kilns and assessing the economic viability of the technology in the Pakistani context
- Writing of a comprehensive project design document for the funding of the 3 years Pilot Phase

Offering an expert opinion on a feasibility study of a brick factory venture in **Rwanda** (a mandate by a private investor and the Rwandan Government)

Deputy project manager (desk) in the Vertical Shaft Brick Kiln (VSBK) Projects on cleaner brick production in **Nepal and Afghanistan** (a mandate by SDC)

Outlining of a GTZ financed project on introducing energy efficient brick kilns in the Uruzgan Province in **Afghanistan**. (a mandate by GTZ)

Technical documentation of traditional and modern brick kilns in **Brazil and Bolivia**

Project Design and Implementation Management:

Country Representative of Skat Consulting Rwanda Ltd. and Regional Resident Project Coordinator and Team Leader of the Programme PROECCO, promoting employment creation through facilitation of the modernisation of the local Construction Industry in **Rwanda, Burundi and DR Congo** (a mandate by SDC in partnership with the Rwanda Housing Authority). 2012-ongoing

Project Design:

- Co-writing the project proposal for an international tender by SDC
- Co-leading the project design team during design workshop in Rwanda
- Writing of the comprehensive project document for the credit application by SDC
- Detailed budgeting of project services (USD 3 million /year)
- Design of a regional implementation team set-up

Project implementation:

Overall responsibility in:

- Establishing 3 country offices in Rwanda Burundi and fort South Kivu (DR Congo)
- Establishing and operating a laboratory, training and sales centre
- Recruiting and leading a multidisciplinary team of engineers, economists, geographers, administration and logistics of more than 40 team members including 4 expatriates
- Establishing management, financial administration, procurement and HR procedures for 3 country teams

Communication with clients and partners:

- Regular formal and informal communication with the SDC country office and the HQ
- Organising regional and national steering committee meetings
- Annual and half-yearly reporting to SDC and local authority partners

Reconstruction consultant in post-earthquake Haiti, for the design and launching of reconstruction activities (A mandate by HEKS, Co-funded by Swiss Solidarity) 2011, 2012

Key management responsibilities

- Design of a project implementation strategy
- Establishing a field office and accommodation facilities
- Establish the collaboration with locally present key players, authorities and experts
- Recruiting and training initial key staff
- Designing and launching of initial field activities
- Introducing expatriate candidates for permanent project management

HEKS, Aid Organisation of the Swiss Protestant Church

Programme Manager (Desk) for Serbia and Bosnia & Herzegovina

2005-2007

Managing two national programmes containing housing and sanitation, skill building and psycho-social post-war projects.

Main tasks: Steering, advising and coaching local NGOs in market oriented strategic reorientation; including support in project design, reporting and fundraising.

Quality Manager for reconstruction projects in Kashmir/Pakistan

2006

Planning support and construction monitoring, with focus on parasismic construction and participatory implementation of 19 water schemes; set-up of monitoring tools for local coordinators and field engineers (checklists, time management, simple coordination, and monitoring GIS). Two months field presents during the initial construction work.

CARITAS, Switzerland, Indonesia Office in Aceh-Singkil

Delegate, Responsible Architect and Site Planner

2006

A two months planning mission on the relocation and reconstruction of 600 houses in Singkil. Responsible for earthquake-resistant house design, site-planning, construction monitoring, set-up of a Geographic Information System (GIS), coaching and cooperation with local architect.

ENDA-RUP, Relay for Participatory Urbanization, Senegal

Urban Planner (Internship)

2004 -2005

PAQPUD (Worldbank-funded sanitation programme) in two informal peri-urban fishermen's villages of Dakar. Establishing a GIS monitoring tool for the construction process and payments.

Responsible for the elaboration a GIS-tool for participatory gradual restructuring of a labyrinthic peri-urban fisherman's village. Cooperation with local authorities, cultural and economic site-analysis, mapping of structural and economic village structure and ongoing infrastructure projects.

Roma Ressource Centre (RRC), Ecumenical Humanitarian Organisation, Serbia

Architect and Settlement Planner (Civilan Service)

2003-2004

Initiating of a participatory slum upgrading process of a Roma Settlement in Novi Sad, supporting a local project team in developing a of a project concept for sustainable slum rehabilitation. Organising elections of Settlement-Council and public forums with the slum dwellers and the and local authorities. Conducting site analysis and site-mapping and facilitating participatory planning process with Roma community. Supporting municipal town planners in setting up a local land-use- and plot-plans for the legalization of the houses

Atelier 5, Architecture and Town Planning, Berne, Switzerland

Architect and Urban Planner (project related employments)

2001-2003

Design of urbanisation and traffic and flood protection plan for the new city centre within the Hafen City in Hamburg (Magdeburger Hafen - international planning competition)

Design and planning of the winning urbanisation project for the design of a new city district at the Liben Port in Prague (international planning competition)

Design and planning of the winning housing design project within the new city district in the Liben Port in Prague (international planning competition)

Freelance Architecture and Urban Planner in Switzerland

1999-2004

Projects of housing, urban design and urban infrastructure projects for the following agencies

- Manzoni and Schmidig Architects in Geneva
- Triporteur Architects in Geneva
- BBESW Architects in Zurich
- Fickert und Knapkiewiesz Architects in Zurich

BBP Architekten Wetzikon Switzerland

Construction Draftsman

1991-1995

Project and detailed construction drawings various construction projects (housing and industry)

REPORTS, PUBLICATIONS, CONFERENCE PAPERS:

- MIT, LCAU (2018), Massachusetts Institute of Technology, Leventhal Center of Advanced Urbanism, Biennale HOUSING +, Cambridge USA, Guest Speaker: The challenges of mass-supply of affordable housing in Africa's Great Lakes Region
- UN-Habitat (2012), Going Green, A Handbook of Sustainable Housing Practices in Developing Countries, (Contributor)
- EPFL (2012): UNESCO Chair International Conference: Technologies for Sustainable Development: A Way to Reduce Poverty? Paper: South – South Transfer of clean Brick-Making Technologies in Asia and Africa
- ETHZ (2012): North-South Forum 2012: Urban Transformation, debating formal and informal development Paper: Linking urban growth and resource use – the informal building material industry in Asia and Africa
- FACES (2014), WYSS, Daniel : Sarajevo, Sortir de l'Urbicide, FACES, Revue d'Architecture
- UNIGE (1999), Wohnen im Silo, Beiträge zur Stadtentwicklung im Basler Rheinhafen, Geneva, 1999 ISBN:2-940270-00-7
- NZZ (1998), Windhöfel, Lutz: Wohnraum im ehemaligen Silo, Diskussionswürdige Projekte für den Rheinhafen in Basel, Eine neue Wohntypologie, Neue Zürcher Zeitung NZZ, 1998