

# Marco Bernasocchi

7031 LAAX, Switzerland

**Doer, communicator,  
self-sufficient team player**  
Writing software since 18 yrs old



I'm very dynamic, flexible and creative **doer** with very good **communicative** skills. I can fluently speak **Italian, English, German, French, Spanish, some Romansh and Swedish**. These language skills and my open-minded attitude facilitate my contact with clients and colleagues.

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## EDUCATION

Universität Zürich (UZH), Switzerland:

2008 – 2011 MSc Geographic Information Systems with Computer Science minor (including Data Structures & Algorithms, Spatial DB, Spatial Algorithms, Network Security, Web Engineering, Web 2.0)

2003 – 2007 BSc Geography, Computer Science/Cartography minor

Uppsala Universitet, Sweden:

2006 Bachelor Thesis in GIS

## Key Accomplishments

- QGIS.org association **co-chair**
- **Top 1 Ranking on google** for "android GIS" among 5 millions Results - 13.4.19
- Co-initiator of **QField**
- Solely **ported Quantum GIS** (1M+ LOC) and its 10+ C/C++ dependency libraries **to android**
- Co-developer of **InaSAFE** (Black Duck Open Source Rookies of the Year Award)
- Development of An Open Source Python - C++ **Geovisual Analytics Toolbox** for Multivariate Spatio-temporal Data for Environmental Change Modelling
- Tens of **database** driven websites and **QGIS plugins** from concept to product implementation

## WORK EXPERIENCE

2013 – Present **CO-Founder and CEO** of OPENGIS.ch providing custom opensource GIS solutions

2011 – Present **Developer and Project Manager** of **QField.org** (former QGIS for Android)

2017 – Present **Spatial DB** and WebMapping teacher at Bildungszentrum Geomatik Schweiz

2013 – 2019 **QGIS and PostGIS Consultant** at GLOBAL EARTHQUAKE MODEL foundation

2012 – 2018 **Geospatial consultant**, DB architect, developer and opensource advocate for **The World Bank** and **AusAID** in connection with **InaSAFE**

2015 **PHP and DB Teacher** at Zürcher Lehrbetriebsverband ICT

2012 **GOOGLE Summer of Code mentor** of **QGIS for Mobile Devices**

2011 **GOOGLE Summer of Code Developer** of **QGIS for Android**

2010 – 2013 **JS, ajax, DB and Python Teacher** at SAE institute Zurich on the BA/BSc Hons Web Development track (validated by Middlesex University)

2004 – 2005 **IT-Supporter** at UZH

2002 – 2013 **Founder , Lead developer and Project Manager** at BERNAWEBDESIGN.CH, Developing web-apps and custom solutions

2000 – Present **Ski instructor trainer, dive base leader and first aid instructor** (US, NZ, MY, MX, CW, CH)

## MAIN SKILLS

- Very strong **Python, PyQt**, (spatial) **DB** and **software design** competences
- Very strong **GIS, QGIS, Mobile GIS** and **Webmapping** competences
- Very strong **Docker deployments** competences
- Strong **web development** (Python, JS, CSS, PHP) competences

## SECONDARY SKILLS

- Very strong prototyping, AGILE and distributed (git) development competences
- Good mobile apps (Android) knowledge
- Good C++, CMake, java, bash, SQL knowledge
- Good project and stakeholder management knowledge
- Extensive knowledge of Linux, TCP/IP Networks

## KEY PROJECTS

- **QField** (formerly QGIS mobile) allows to take QGIS projects out of the office for effective field work. By maintaining QGIS' styling and edit widgets QField greatly reduces preparation time. It is developed using Qt5 and QML. I'm **one of the two project managers**.
- **QGIS** is an Open Source Geographic Information system with an international support community of enthusiastic users, developers and supporters. I solely **ported to Android** the application (1M+ lines) and its 10+ C/C++ dependency libraries and I'm the **co-chair** of the QGIS.org association
- **QFieldCloud** Project manager and co-architect of the backend database and docker infrastructure
- **PostgreSQL/PostGIS**
  - Modeling and deployment of the whole PostgreSQL/PostGIS database structure for the Schweizerische Südostbahn AG
  - Modelling and deployment of national databases for fish occurrence data, integration of the Swedish and Finnish fish occurrence as well as gill-net data in PostGIS using DarwinCore standards for the Norwegian Institute for Nature Research.
- **Docker** Planning and deployment of the QGIS server infrastructure for the Kanton of Zug including, automatic deployment, healthchecks and DB connection pooling and load-balancing
- **InaSAFE** is free and open software that produces realistic natural hazard impact scenarios for better planning, preparedness and response activities. It provides a simple but rigorous way to combine data from scientists, local governments and communities to provide insights into the likely impacts of future disaster events. It is developed entirely in Python and I **lead the development of certain modules** such as the data aggregation, post-processing and metadata module.
- **OpenQuake Integrated Risk Modelling Toolkit** allows creating and editing indicators and composite indices and combining these with estimates of physical earthquake risk (i.e. estimates of human or infrastructure loss). It is developed in python (PyQt with some JavaScript mix-ins) by the GEM foundation where I act as **consultant, teacher** and **developer** focusing **on the more complex parts of their user facing tools** and **Database models**.
- **27summits.ch** and **berna.io** are some examples of my **web developer skills**

## SPORTS & HOBBIES:

Skiing (**Instructor trainer**), diving (**Technical Diving Instructor**, **Technical Cave Diver**), climbing, mountaineering, travelling, music, technology, reading

Currently I'm also enjoying an ultra **endurance** multi sport **project** called 27summits.ch