

Marco Bernasocchi

7152 Sagogn, 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 Swedish and some Romansh**. 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

- **Top 2 Ranking on google** for "android GIS" among 5 millions Results - 28.4.15
- Co-initiator of **QField**
- Solely **ported Quantum GIS** application (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 **websites** and **QGIS plugins** from concept to product implementation

WORK EXPERIENCE

2015

PHP Teacher at Zürcher Lehrbetriebsverband ICT

2013 - Present

QGIS Consultant at GLOBAL EARTHQUAKE MODEL foundation

2013 - Present

Founder of OPENGIS.ch LLC providing custom GIS solutions

2012 - Present

Co-developer **InaSAFE** (Data aggregation, vulnerable segments, ...) sponsored by **The World Bank** and **Australian aid**

2012

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

2011 - Present

Lead developer and Project Manager of **QGIS** for **Android**

2011

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

2010 - 2013

JS, ajax, 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 worldwide (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 **Cartography** competences
- Very strong **prototyping, AGILE** and **distributed** (git) development competences
- Very strong **web development** (JS, AJAX, JQuery, CSS, PHP) competences

SECONDARY SKILLS

- Good C++, CMake, java, bash, SQL knowledge
- Good web mapping and mobile apps (Android) knowledge
- Good project and stakeholder management knowledge
- Extensive knowledge of Linux, TCP/IP Networks

CURRENT KEY PROJECTS

- **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**.
- **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 developers**.
- **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
- **Openambit** is an open software for synchronizing the Suunto Ambit outdoor watches to various platforms including Linux. It is developed using a mix of pure C and Qt C++. I mainly **work on the C++/Qt frontend**.
- **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