

Curriculum Vitae

Personal Data

Name **Martin Fuhrer**

Address Beundenring 29
CH-2560 Nidau

Company **Fuhrer Engineering AG**
Bernstrasse 18
CH-2555 Brugg

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Year of birth 1968
Nationality Switzerland
Marital status married, two children

Languages German (native language)
English (fluently spoken and written)
French (fluently spoken and written)

Leisure Politics (local council in Nidau), golf, sailing



Education

1995 – today Several postgraduate trainings in the field of software engineering and project management

1991 – 1995 Biel School of Engineering, information technology
Graduation as engineer HTL

1987 – 1991 Apprenticeship as electronics technician

Professional Experience

2000 – today Fuhrer Engineering AG, Brugg

1995 – 1999 Rolotec AG, Biel – Software engineer & project manager

1993 – 1994 Rolotec AG, Biel – Traineeship as software engineer

1987 – 1991 Zumbach Electronic AG, Orpund – Apprenticeship as electronics technician

Professional Strengths

Based on over 20 years of experience in projects for banks and other companies from the financial sector as well as medium to large industrial enterprises, I am used to meet the highest demands of quality, security, and confidentiality.

I have a very strong sense of quality awareness and am constantly trying to achieve the greatest possible benefit for the customer within the resources available.

Amongst my particular strengths are a rapid but still very precise way of working, great flexibility, and the willingness to familiarize myself within a short time in new technologies and areas of responsibility.

Personal Strengths

Reliability, very high load capacity, determination, and great decisiveness are among my main strengths. I like working in a flexible and versatile working environment, appreciate the professional debate within the team, and I identify myself with my clients and their projects.

Skills

Programming Languages

Java	■ ■ ■ ■ ■ ■ ■ ■
Groovy	■ ■ ■ ■ ■ ■ ■ ■
C/C++	■ ■ ■ ■ ■ ■ ■ ■
Perl	■ ■ ■ ■ ■ ■ ■ ■
JavaScript	■ ■ ■ ■ ■ ■ ■ ■
SQL	■ ■ ■ ■ ■ ■ ■ ■

Operating Systems

Linux / Unix	■ ■ ■ ■ ■ ■ ■ ■
Mac OS X	■ ■ ■ ■ ■ ■ ■ ■
Windows	■ ■ ■ ■ ■ ■ ■ ■

Frameworks

Grails	■ ■ ■ ■ ■ ■ ■ ■
Swing	■ ■ ■ ■ ■ ■ ■ ■
JavaFX	■ ■ ■ ■ ■ ■ ■ ■

Web Technologies

HTML5	■ ■ ■ ■ ■ ■ ■ ■
CSS	■ ■ ■ ■ ■ ■ ■ ■
JQuery	■ ■ ■ ■ ■ ■ ■ ■
Bootstrap	■ ■ ■ ■ ■ ■ ■ ■
AngularJS	■ ■ ■ ■ ■ ■ ■ ■

Projects *(selection)*

Telekurs iD / SIX iD

Java Application used to display worldwide reference and market data, news, and other information based on the data universe of SIX and third party providers. Besides Bloomberg and Reuters, SIX iD is one of the leading data terminals for the display of real time reference and market data.

Duration 02/2005 – today
Customer SIX Financial Information, Zürich (CH)
Roles System architect, UX designer, software developer
Technologies **Java, Swing**

Swiss Fund Data

Web application used to manage and display fund information, official publication agency for the Swiss fund market. Consists of an administration application for the management of fund information including daily prices, legal documents, etc. and a public web site built with responsive technology, optimized to be used on phones and tablets.

Duration 11/2010 – today
Customer Swiss Fund Data AG, Zürich (CH)
Roles Project manager, architect, UX designer, developer
Technologies **Java, Grails, Groovy, Tomcat, MySQL, HTML5, CSS, Bootstrap, JavaScript**

Order Submission Tool

Web application for professional fund managers used to process buy and sell orders in the fund and ETF business. Automatic creation and distribution of PDF forms.

Duration 08/2012 – today
Customer UBS AG, Zürich (CH)
Roles Project manager, architect, UX designer, developer
Technologies **Java, Grails, Groovy, Tomcat, MySQL, HTML5, CSS, Bootstrap, JavaScript**

Global Information System

Web application used to conceive and manage incidents in all SIX payment systems. Determines automatically which clients are affected by a given incident and informs them selectively.

Duration 07/2014 – today
Customer SIX Payment Services, Zürich (CH)
Roles System architect, UX designer, software developer
Technologies **Java, Grails, Groovy, MySQL, HTML, CSS, JavaScript**

IMD v4 / v5

Controlling software for optical inspection systems in the production of injection molding parts, e.g. PET bottles and caps. Contact-free detection of defects in form, texture, color, etc.

Duration 09/2008 – 02/2009 / 01/2015 – 11/2015
Customer IMD Ltd., Brugg (CH)
Roles System architect, software developer
Technologies **Java, Swing, JavaFX, Visual C++**

TSE JDR Reporting

Automatic reporting of relevant data for ETF's traded on the Tokyo stock exchange. Automatic creation of multi-page PDF reports in Japanese language, containing up-to-the-minute market data.

Duration 02/2015 – today
Customer UBS AG, Zürich (CH) & Tokyo (JP)
Roles Project manager, system architect, software developer
Technologies **Java, PDF**

CAT-S / Marguns

Automatic calculation of buy and sell recommendations for shares, based on the valuation of actual and historical stock exchange data.

Duration 04/2009 – 01/2015
Customer Marguns AG, Schaffhausen (CH)
Roles Project manager, system architect, software developer
Technologies **Java, Grails, Groovy, Tomcat, MySQL, JavaScript**

JProfiler Integration Plugin

Plugin used to integrate JProfiler into IntelliJ IDEA. Enables the profiling of standalone and server based applications directly from within IntelliJ IDEA, greatly simplifying the work with JProfiler.

Duration 09/2004 – today
Customer ej-technologies GmbH, Munich (DE)
Roles Project manager, system architect, software developer
Technologies **Java, IntelliJ IDEA API**

Order Book Server

Server software used to read bid and ask prices directly from the exchange data feed and calculating order books based on these values. Feeds the calculated order book data in real time into the SIX market data feed (MDF).

Duration 11/2007 – 09/2013
Customer SIX Financial Information, Zürich (CH)
Roles System architect, software developer
Technologies **C++, Linux**

ELCO Heizberater / Heacon

Web application used for the automatic dimensioning of different heating systems. The system calculates the required heating power for different heating sources and compares them graphically. A bill of material and an approximate offer is calculated for the chosen heating system.

Duration 10/2005 – 12/2009
Customer ELCO Heating Solutions, Hechingen (DE)
Roles System architect, UX designer, software developer
Technologies **Java, Java Server Faces, Java Servlets, MySQL, JavaScript**

Thales Artema

Support and further development of the embedded software inside the credit card terminal Thales Artema. Controls the interaction with the user (e.g. PIN entry), processes the required security checks, and forwards the transaction to the payment servers.

Duration 07/2006 – 12/2006
Customer SIX Payment Services, Zürich (CH)
Roles Software developer
Technologies **C/C++, embedded development environment**

iD Server

Real time processing of worldwide stock exchange data with minimal latency (market data by SIX MDF, reference data by SIX VDF) and preprocess for the delivery to different client systems. Handling of over 12 million financial instruments in real time and simultaneous delivery to a large number of consumers.

Duration 07/2002 – 10/2005
Customer SIX Financial Information, Zürich (CH)
Roles System architect, software developer
Technologies **C++, MySQL, Linux**

SafeBase

Database based expert system for the prediction of potential adverse reactions in the development of new drugs. Modeling of genetic and pharmaceutical relationships.

Duration 09/2001 – 02/2002
Customer TheraStrat AG, Allschwil (CH)
Roles System architect, UX designer, software developer
Technologies **Java, Swing, Apple WebObjects**