Project description OO development

Microsoft development, database development and database administration, web portals and OO development…

Microsoft software developer, software architect, project manager, requirement analyst and consultant. Database development in the area of Microsoft SQL Server as well as administration of complex database systems and specialist for complex database migrations in clusters. Database development using Oracle and PL SQL as well as performance tuning in the Oracle environment. Specialist for the creation of complex ETL lines in the area of SQL Server using T-SQL and SSIS. Data warehouse developer, architect and consultant in the area of Microsoft SQL Server using T-SQL, SSIS, SSAS and SSRS.

PERSONAL DATA

Name: **Stefan Troehler**

Phone	P CH:	+41 (0)56 511 60 17
Phone	G CH:	+41 (0)56 511 60 15
Phone	G DE:	Follows
Mobile	G CH:	+41 (0)76 737 00 84

E-Mail: stefan.troehler@troehler.it
Website: https://troehler.bs4y.site/
Portfolio: https://portfolio.bs4y.site/
Company   https://web.bs4y.site/

Date of birth: 21.09.1964
Civil status: Divorced
Nationality: CH / Swiss

Address Switzerland	**Company address CH**	**Company address DE**	**Company address AT**
Stefan Tröhler	bs4y stefan troehler	bs4y stefan troehler	bs4y stefan troehler
Luzernerstrasse 24	Luzernerstrasse 24	Leopoldstraße 31	Neubaugasse 24/1
5712 Beinwil am See	5712 Beinwil am See	80802 München	8020 Graz
(Registration address)	(Company address)	(Company address)	(Company address)

MARKET PERFORMANCE

My CONTRIBUTION
Due to my several years of profound experience in the fields of requirement engineering, design of applications, databases and multi-layer architectures, development, realisation and implementation, support and maintenance, in the environment of MICROSOFT, DATABASE AND DWH DEVELOPMENT, I am able to identify quickly and competently with your project and to implement organisational and technical optimisation approaches professionally. Due to my flair for new technologies and my high level of technical understanding, I can professionally implement new solution ideas into your existing system landscape. As a strong communicator I support the flow of information between all project participants and as a team player I enrich your development team.

My PROFILE
With more than 30 years of professional experience and more than 100 realised projects in the functions of software developer and consultant for IT projects in the three areas of Microsoft development, database development and database administration, I can be an enormous enrichment for your team as well as for your project. With my commitment and my professional competence I can significantly contribute to a goal-oriented and professional completion of your project. Below is an excerpt from my technical knowledge and experience of the past 30 years:

Microsoft Development
– VB, VBA, .NET and database developers with profound technical knowledge.

- Design and implementation of multi-tier and database applications.
- Maintenance and support of multi-tier and database applications.
- Profound technical knowledge Microsoft Office, MS Access and VBA, MS Excel and VBA, MS Word with VBA, Access as frontend and backend, MS SQL Server and Oracle as backend with MS Access, MS Excel as frontend, MS Project and MS Project Server, office automation with MS Word and MS Excel and MS Project, evaluations at the push of a button, user interfaces, user guidance and input validation, Userforms, Pivot tables, Diagrams, MS SQL Server, Integration Services (SSIS), Integration Services (ETL), T-SQL, data mapping using T-SQL, DAO, C#, WPF, WFF, WCF, VB 6.0, VB .NET, interfaces, Training and support; training focus on MS VBA in MS Access, MS Excel, MS Word, MS Project.

General
- Logical, analytical thinking combined with a high level of understanding for the technical implementation of requirements.
- Competent in negotiations, convincing and entrepreneurial thinking.
- Very good knowledge of German and English, both spoken and written.

PROFESSIONAL EXPERIENCE OO PROJECTS

Jun 2009 – Mar 2012	Unimon AG, Zurich **Drinking water monitoring P 02 - Java, J2EE**

There are now many different online measuring systems for monitoring water quality, which can measure relevant parameters using different methods. However, not every system is equally suitable for the respective measurement task. There are differences in terms of maintenance, measurement accuracy, procurement and operating costs, as well as in everyday handling.

In version 2, the existing application for monitoring drinking water is adapted to new customer requirements. New calculation models are integrated and interfaces for new measuring techniques and measuring probes are developed. No adjustments are made with regard to the programming languages and databases used.

- In the meantime, there are many different online measuring systems for monitoring water quality, which can measure relevant parameters using different methods.
- However, not every system is equally suitable for the respective measuring task.
- There are differences in terms of maintenance, measurement accuracy, procurement and operating costs, as well as in everyday handling.
- To evaluate the suitability of online measurement technology for the task (technically and economical).
- Evaluation of online measurement technology and measurement technology suppliers.
- Engineering for the implementation of the measurement systems in your existing plant (measurement location, optimal installation).
- Ongoing support of the online measurement technology (maintenance, servicing, calibration, support during 24 h / 7 days).
- Implementation of measurement campaigns with mobile and stationary measurement stations.
- Connection of online measurement signals to our monitoring ring database as part of measurement campaigns or for external stations that are not integrated into the process control system.
- For the monitoring of drinking water in various cantons, we developed a Realtime monitoring application with Java, J2EE and Oracle was developed, which monitors the drinking water according to the above explanations and initialises the corresponding steps.
- You can find out more about the application at: Link Unimon.

May 2009 – Jun 2009	Unimon AG, Zürich **Server Outsourcing – Infrastructure**

As part of an outsourcing of the company Unimon AG, the existing IT infrastructure

and IT organisation was supplemented with a customer-specific service level agreement (SLA) and all hardware was outsourced. The entire operational responsibility was taken over. On-site services, data centre services and cloud services were combined into an efficient solution, matching the customer's needs; the entire networking from the data centre to the workplace. Core switching, routing, access switching, VLAN, MPLS, WLAN, VPN and security were implemented according to customer requirements: Desktop, notebook and thin clients as well as VDI solutions. Printers, scanners, managed printing and bandwidth optimisation for remote printing were provided.

- Within the framework of an outsourcing of the company Unimon AG, the existing IT infrastructure and IT organisation was supplemented with a customer-specific service level agreement (SLA).
- Level Agreement (SLA) and outsourced to and from the company.
- We took over the entire operational responsibility with a complete on-site outsourcing.
- On-site services, data centre services and cloud services were combined into an efficient solution to fit the customer's needs.
- The entire networking from the data centre to the workplace.
- Core switching, routing, access switching, VLAN, MPLS, WLAN, VPN and security.
- Desktop, notebook and thin clients as well as VDI solutions. Printer, scanner, managed printing and bandwidth optimisation for remote printing.
- Server virtualisation with Microsoft Hyper-V, Citrix XenServer, VMware vSphere and PowerVM. Network virtualisation with VLAN, MPLS and VSAN. Storage virtualisation and desktop virtualisation (VDI).
- For central data and applications and portal solutions. Active Directory. Virtual desktop solutions such as hosted VDI, hosted application and streamed VDI solutions.

May 2009 – Jun 2009	A+A, Wohlen **DDF – T-SQL, Oracle, SQL, PL/SQL, .NET**

Application for managing documents of any kind. Documents are managed using various file formats. The documents are versioned and stored in a central database. Various relational databases are used (e.g. Oracle, Microsoft SQL Server etc.). The documents are read in using batch processing and stored in the database. Of course, the documents can be exported from the database again at any time. Implementing new customer requirements. Integration of a new licence model.

- Application for managing documents of any kind.
- Documents are managed using various file formats.
- The documents are versioned and stored in a central database. stored.
- Various relational databases are used. (e.g. Oracle, Microsoft SQL Server etc.).
- The documents are read in using batch processing and stored in the database.
- Of course, the documents can be exported from the database at any time.
- Implementing new customer requirements.
- Integration of a new licence model.
- Requirement engineering.
- Adapt and extend the data model using ERWIN.
- Implementation of customer requirements using Microsoft.NET, Microsoft SQL Server, T-SQL, Oracle, SQL, PL/SQL.
- Testing and documentation (technical).

Feb 2004 – Sep 2004	ETH Zurich, Zurich **Eye tester - C++**

The unit can take more measurements regarding vision than is the case with conventional units. Measurements: Visual acuity vergence, image formation, clinical measures of visual acuity, equivalence of measures, screening visual acuity in OSH, contrast, illumination, visual performance, signal detection theory, visual

performance in the elderly, lenses for presbyopes. Various existing defects are corrected simultaneously and user interfaces are adapted according to the client's specifications. Based on the measurement results, additional values are calculated using complex formulas and displayed graphically. Developing the interfaces to the test system (hardware), implementing the calculation models, implementing the evaluations. Implementation of customer requirements, corrections and extensions using Microsoft C++. Testing and documentation (technical).

- The system can take more measurements of vision than conventional systems.
- Measurements: Visual acuity vergence, image formation, clinical measures of visual acuity, equivalence of measures, screening visual acuity in the occupational safety, contrast, illumination, visual performance, Signal detection theory, visual performance in the elderly, lenses for presbyopes.
- Various existing defects are corrected simultaneously and User interfaces are adapted according to the client's specifications.
- Based on the measurement results, additional values are calculated using complex formulas and displayed graphically.
- Development of the interfaces to the test system (hardware), implementation of the calculation models, implementation of the evaluations.
- Requirement engineering.
- Implementation of customer requirements, corrections and extensions using Microsoft C++.
- Testing and documentation (technical).

Feb 2003 – Nov 2003	Lüscher, Leutwil **JET PRINT – C++**

It penetrates straight and deep into the polymer material to directly crosslink its layers. This results in sharp and deep flanks and open reserves for letterpress forms. Small positive elements such as lines, text and relevant fine details must be supported with optimal flanks. A black pixel zone means that 100% of the imaging energy is applied during a pre-set number of scans. This corresponds to the input TIFF file. A white pixel zone means that no energy is applied and the polymer is not cross-linked. Different shades of grey for a pixel represent different levels of imaging energy. UV imaging has the potential to be a universal imaging technology for the printing sector. Printing plates for offset, flexo and screen printing as well as varnish and spot colours. Further applications are currently being developed.

The high resolution makes it possible, for example, to print "interspersed" macro lettering that is barely visible to the naked eye. "Lüscher" is almost 100 per cent geared to export. Implementation of customer requirements using C++. Testing and documentation (technical).

- Purpose of the software: UV laser light is highly focused.
- It penetrates straight and deep into polymer material to directly cross-link its layers.
- This results in sharp and deep edges and open reserves for high pressure forms.
- Small positive elements such as lines, text and relevant fine details must be supported with optimal flanks.
- A black pixel zone means that 100 % of the imaging energy is applied during a preset number of scans.
- This corresponds to the input tiff file.
- A white pixel zone means that no energy is applied and the polymer is not cross-linked. Different shades of grey for a pixel represent different levels of imaging energy.
- UV imaging has the potential to be a universal imaging technology for the printing sector.
- Printing plates for offset, flexo and screen printing as well as varnish and spot colours
- Further applications are currently being developed.
- The high resolution makes it possible, for example, to print "interspersed" macro

lettering that is barely visible to the naked eye. "Lüscher" is almost 100 per cent geared to export.
- – Requirement Engineering.
- – Implementation of customer requirements using C++.
- – Testing and documentation (technical).

Mar 2000 – Jun 2001	Miracle AG, Langenthal **Miracle - VB similar**

Miracle is a RAD platform used to design and develop ERP solutions. To implement customised ERP solutions at the end customer's site using the RAD development system. Integrate new core functionalities into the existing RAD platform and make them available for the implementation of ERP systems using the RAD platform. Such new core functionalities were always developed, tested and integrated into the RAD platform at the Langenthal branch. For this purpose, corresponding clarifications had to be carried out in advance with the customer and with internal development. The new functionalities had to be specified in detail. Implementation of the requirements using the RAD development system produced by Miracle as well as testing and introduction of the ERP solution, integration of new functionality into the RAD platform. Testing and documentation (technical).

- – Miracle is a RAD platform used to design and develop ERP solutions.
- – With the help of the RAD development system at the end customer's site, we can implement customised ERP solutions.
- – Integrate new core functionalities into the existing RAD platform and make them available for the implementation of ERP systems using the RAD platform.
- – Such new core functionalities were always developed, tested and integrated into the RAD platform at the Langenthal branch.
- – For this purpose, corresponding clarifications had to be carried out in advance with the customer and with internal development.
- – The new functionalities had to be specified in detail.
- – Requirement Engineering.
- – Implementation of the requirements using the RAD development system produced by Miracle, testing and introduction of the ERP solution, integration of new functionality into the RAD platform.
- – Testing and documentation (technical).

Jan 1988 – Dec 1989	Ascom Radiocom AG, Solothurn **Testing software for logistics – VB**

Development of special testing software for testing multilayer printed circuit boards. Development of special testing software for testing power supplies. The testing software was developed using a Pascal related programming language. The test results were evaluated automatically. Fully automated testing of internally produced multilayer PCBs and multilayer PCBs supplied by suppliers. For power supplies, the software was developed using a programming language similar to Visual Basic. The inspection software was designed for random sampling and the evaluation was carried out using ISO 9001 specifications. Responsible for the entire IT infrastructure in the logistics of incoming goods inspection at Ascom Radiocom AG.

- – Development of special testing software for testing multilayer printed circuit boards.
- – Development of special testing software for testing power supplies.
- – The testing software was developed using a Pascal related programming language.
- – The test results were evaluated automatically.
- – Fully automated testing of internally produced multilayer PCBs and of multilayer PCBs supplied by suppliers.
- – For power supplies, the software was developed using a programming language similar to Visual Basic.
- – The testing software was designed for a random sample test and the evaluation was carried out using ISO 9001 specifications.

- Responsible for the entire IT infrastructure in the logistics of the incoming goods inspection of Ascom Radiocom AG.
- In addition, I created test specifications for multilayer printed circuit boards and assemblies.
- Programming of a database based on Sybase (ISO 9001).
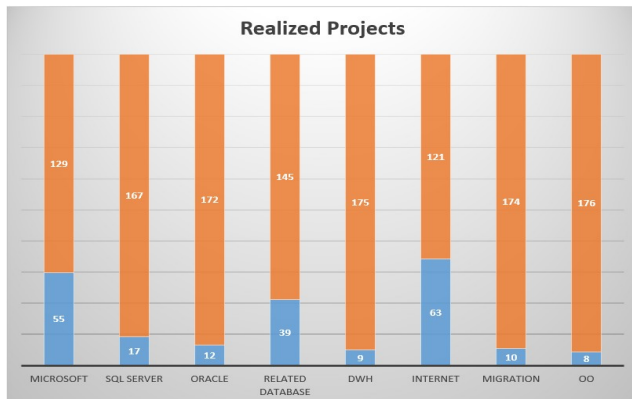
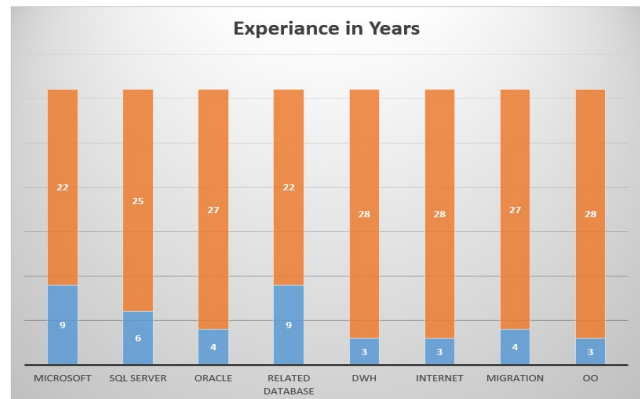|	
Mar 1984 – Dec 1987	Agathon AG, Bellach **Machine control software**

Integration of customised extensions to the machine controls for indexable inserts and centreless grinding machines. Extension of the machine controls. Integration of robot elements for fully automated production. Implement mechanical as well as electrical extensions of the CNC machines incl. control and software. Software components have to be changed or extended. Adaptation of the software according to the customer's specifications. Testing of the mechanical and electronic assemblies and commissioning of the machines.

- Integration of customised extensions to the machine controls for indexable inserts and centreless grinding machines.
- Extensions of the machine controls.
- Integration of robot elements for fully automated production.
- Mechanical as well as electrical extensions of the CNC machines incl. control and software.
- Software components have to be changed or extended.
- Adaptation of the software according to the customer's specifications Testing of the mechanical and electronic assemblies and commissioning of the machines.

PROJECT OVERVIEW

Realised projects per development area

Experience per development area

The two graphs above illustrate the number of projects realised in the respective areas as well as the experience in years in the respective areas. It is important to mention that the areas Microsoft, Microsoft SQL Server and DWH partly show the same projects, since a project that was realised using Microsoft SQL Server or a data warehouse that was also realised using Microsoft SQL Server is certainly also listed in the Microsoft area.

Number Microsoft- Projects	55	Experience Microsoft- Projects	9
Number Microsoft SQL Server- Projects	17	Experience Microsoft SQL Server- Projects	6
Number Oracle- Projects	12	Experience Oracle- Projects	4
Number relationale Datenbank- Projects	39	Experience relationale Datenbank- Projects	9
Number Data-Warehouse- Projects	9	Experience Data-Warehouse- Projects	3
Number Internet- Projects	81	Experience Internet- Projects	3
Number Migrations- Projects	10	Experience Migrations- Projects	4
Number OO- Projects	8	Experience Projects	3

SPECIAL SKILLS / CERTIFICATIONS

Additional project knowledge
Requirement engineering, real-time development, SIHL Level 4 programming, image processing with C# (WPF, WCF, WWF etc.), data migrations from SAP to Project Server and vice versa, preparation of patent specifications, project management, project management committee banks, data and application migrations.

Patents
Worldwide patent for working time control by means of biometrics.
Worldwide patent for addressing endpoints in distributed heterogeneous networks.

Customer patents arose from projects
UBS AG, worldwide patented database compiler (SQL Server, Oracle).

Certifications
In August 2010, I was certified by UBS AG Due Dilligence. The certification (performance audit) concerned in the technical area the organisation of project management and project administration, team leadership and technical knowledge regarding the implementation of database projects.

EDUCATION & STUDIES / FURTHER EDUCATION / BANKING KNOWLEDGE / LANGUAGES

Languages
German: Mother Language
English: Fluent speaking and writing (C1)
French: Basic knowledge spoken and written

Special banking knowledge, certifications
2019   Cyber Security & Social Engineering
2019   Information Security and Records Management
2019   Working with Respect
2019   Market Conduct
2018   Financial Crime Prevention
2018   SDLC
2018   SERA / MER
2018   Understanding CID and policy compliant data
2018   Training on the EU General Data Protection Regulation

Further education
2005   Oracle
2005   Hyperion Essbase
2004   Oracle SQL Tuning
2004   Oracle: PL/SQL
2001   Oracle Database
1997   OO Analysis and Design
1996   Java Advanced Concepts
1996   SQL for Advanced Users
1994   Java Introduction
1994   Java User Interfaces
1993   Delphi Database Development
1993   Advanced Borland Delphi Course
1992   Development with Borland Delphi
1992   Application Development with Delphi
1991   Visual Basic Programming Course 2
1990   Visual Basic Programming Course 1

Training & Studies

1985 - 1988	Studied at the Technical University of Applied Sciences NWS, specialising in microprocessor technology.
1980 - 1984	Apprenticeship as a mechanic, passed vocational examination, vocational training at the company Delta AG in Solothurn.
1979 - 1980	Secondary school in Wangs-Pizol (10th grade)
1976 - 1979	Secondary school in Langendorf
1970 - 1976	Primary school in Langendorf

INDUSTRY AND DEVELOPMENT ENVIRONMENT

Knowledge in the fields of

Knowledge in
Development and implementation of **management software**
Development and implementation of **client management software**
Development and implementation of **laboratory and medical software**
Development and implementation of **risk analysis**
Development and implementation of **financial software**
Development and implementation of **e-banking software**
Development and implementation of **stock recommendations**
Development and implementation of **ETL routes and DWH's**
Development and implementation of **SDLC software**
Development and implementation of **lifecycle calculations**
Development and implementation of **performance tuning (DB)**
Development and implementation of **project management and work and project times**
Development and implementation of **migrations**
Development and implementation of **credit card software**
Development and implementation of **interfaces**
Development and implementation of **legal requirements**
Development and implementation of **internet applications and websites**

Industry sector
Private Banking
Investment Banks
Banks in general
Banks Administration and Management
Reinsurance
B2B Insurances
Insurance
Research and development
Industry
Retail trade
Start-up companies
Government and administration
Car industry
Private individuals
Schools and further education
Medical laboratories
Trust
Kitchens and Hotel
Railways and Transport
Recruitment agencies
Telecommunications
Chemical companies
Biology companies
Printer manufacturers

DIVERSES

Work locations
Switzerland, Germany (FRG-wide), Austria, Liechtenstein, Europe.
Willingness to travel nationally and internationally given.

Salary
Permanent position depending on overall package
Project basis on site 60.00 Euro / 70.00 SFr. per hour - 80.00 Euro / 100.00 SFr. per hour.
Project basis remote 50.00 Euro / 60.00 SFr. per hour - 80.00 Euro / 100.00 SFr. per hour.

Depending on the project, remote share and negotiable.

Availability
From 31.12.2020 at 100%

Hobbys
Relationship, nature, dog (animals), sports, new technologies, social commitment, classical music

REFERENCES

On request

ATTACHMENTS

– Cover letter
– Overview of all projects and skills, sorted by date
– Reverence list on request