ProjectSummaries

Giants Software		
Auto Updater	year	2019 - 2020
	info	The DVD version of the game should be able to self update on Windows and macOS. The different versions are managed with a web application and then distributed to the CDN infrastructure.
	tasks	- **developing** all 3 components laucher, management web application and upgrading the CDN infrastructure.
	technologies	C++, PHP, SQL
	tools	MSVC++, XCode, Visual Code
Multiplayer/Cross Play	year	2020 - 2020
	info	The multiplayer architecture was enhanced with different managing services to ease the setup of a MP session. To comply with Microsoft and Sony requirements for cross play a central relay server is needed per MP session.
	tasks	- **enhancing** the ENet library to be able to use relay servers. **developing** the relay server.
	technologies	C++, ENet
	tools	MSVC++
3Dconnexion space mouse integration	year	2020 - 2020
	info	The 3Dconnexion space mouse is now usable in Giants Editor and base game for streamers
	tasks	- **using** the space mouse SDK to integrate the hardware
	technologies	C++
	tools	MSVC++
Giants Editor	year	2018 - 2020
	info	Level and vehicle editor for Farming Simulator Base Game
	tasks	- **developing** different 3D enhancements, multilanguage, **implementing** a lot of functionality and bugfixing
	technologies	C++, tinyXML
	tools	MSVC++
Shader Cache Server	year	2018 - 2019
	info	the shader cache server accelerates the development of the base game and editor
	tasks	- **developing** client and server part
	technologies	C++, Linux
	tools	MSVC++
Code Sign Server	year	2018 - 2019
	info	client server application using a dongle to sign executables like the base game
	tasks	- **developing** client and server part
	technologies	C++, Linux
	tools	MSVC++
Maya and Blender exporter	year	2018 - 2020
	info	Maya and Blender plugin to export scene in i3d file format for base game and editor
	tasks	- **enhancing** plugins with new features in i3d file format

	technologies	C++, Python
	tools	Maya, Blender, MSVC++, Visual Code
Hardware controller support	year	2018 - 2019
	info	Wheels, joysticks and controllers using rawInput with a proprietary mapping
	tasks	- **implementing** Windows rawInput interface for all usable hardware for Farming Simulator
	technologies	C++
	tools	MSVC++
Rola AG (Logobject AG)		
DB synchronisation	year	2014 - 2018
	info	PL/SQL synchronisation between old INPOS world and new Logobject solution.
	tasks	- **developing** of the PL/SQL routine.
	technologies	PL/SQL
	tools	Toad für Oracle 10g 11g 12c, Git
Mobile Journal	year	2014 - 2018
	info	The Journal INPOS module is being ported to the mobile platform of Logobject.
	tasks	- **developing** the mobile Journal app.
	technologies	MS C#, .NET, Java, SQL, PL/SQL, Windows
	tools	MSVC#, Eclipse, Toad für Oracle 10g und 11g, CVS
Rola AG		
INPOS apps	year	2009 - 2018
	info	INPOS is a collection of Windows modules for the management of police measures (personal and case management, Journal, reports, process management, and more)
	tasks	- **developing** new features. - **Correcting** errors in all modules.
	technologies	Borland C++, Java, SQL, PL/SQL, Windows
	tools	Embarcadero CodeGear C++, Eclipse, Toad für Oracle 10g und 11g, SVN
RCL	year	2011 - 2015
	info	**R**ola **C**lass **L**ibrary is a proprietary, platform-independent (Windows, Solaris and Linux) C ++ library, which is used in all INPOS modules.
	tasks	- **correcting** errors.
	technologies	Borland C++, Windows, Solaris, Linux
	tools	Embarcadero CodeGear C++, SVN
Tatuk GIS	year	2009
	info	This geographical info system component shows events on the Canton map. It facilitates the entry of coordinates of a crime scene and you can open events found directly.
	tasks	- **integrating** the component in various INPOS modules.
	technologies	Borland C++, SVN, Windows
	tools	Embarcadero CodeGear C++, SVN
yFiles for Java	year	2014
	info	For the new module in INPOS, yWorks is used as a central processing template. In the chart the relationships between entities can be represented

		graphically.
	tasks	- **integrating** the component.
	technologies	Java, yWorks, Windows
	tools	Eclipse, SVN, Ant
Integration Sedex	year	2009 - 2018
	info	Sedex serves as a platform for secure data exchange between customers (Canton police) and federal applications. Various import and export were realized on the basis of Sedex.
	tasks	- **extension** of the Sedexdaemon.
	technologies	Borland C++, Windows
	tools	Embarcadero CodeGear C++, SVN
Mistra	year	2009 - 2018
	info	The export of traffic accidents from INPOS to the Federal Statistical Office (FSO) was realized. The technical response is processed. The plausibility rules that checks dependencies of the data collected, were implemented using ANTLR.
	tasks	- **developing** the interface. - **Maintenance** of the interface.
	technologies	Borland C++, Sedex, Windows
	tools	Embarcadero CodeGear C++, SVN
Janus	year	2010
	info	Janus is a federal application for organized crime. Now it is possible to export case data automatically after Janus. The generated XML is sent over a soap interface.
	tasks	- **develop** the interface.
	technologies	Borland C++, Java, SOAP, Windows
	tools	Embarcadero CodeGear C++, Ecplise, SVN
Juspol	year	2010
	info	The Juspolexport contains personal and case information and is read by the applications Tribuna and [[http://www.abraxas.ch] [Juris]].
	tasks	- **develop** the interface.
	technologies	Borland C++, Windows
	tools	Embarcadero CodeGear C++, SVN
SPI	year	2011
	info	The existing interface to SuissePol index was rewritten as a Windows service.
	tasks	- **extend** the interface.
	technologies	Borland C++, Windows
	tools	Embarcadero CodeGear C++, SVN
ePolice	year	2013
	info	EPolice is the electronic police station with 5 different forms. The import of these online forms is running throu different INPOS modules.
	tasks	- **develop** the import interface.
	technologies	Borland C++, Java, Sedex, Windows
	tools	Embarcadero CodeGear C++, Ecplise, SVN
Epsipol	year	2012
	info	Epsipol is a management program for administrative fines. These are automatically imported into INPOS.

	tasks	- **develop** the import interface.
	technologies	Borland C++, Java, Sedex, Windows
	tools	Embarcadero CodeGear C++, Ecplise, SVN
ky2help	year	2012
	info	Our evidence object module exports the evidence objects to ky2help.
	tasks	- **develop** the export interface.
	technologies	Borland C++, Windows
	tools	Embarcadero CodeGear C++, SVN
Support of the SVN infrastructure	year	2010 - 2018
	info	Our release management is supported by the in-house developed tool Rolacommitter. The SVN infrastructure was migrated to Windows servers.
	tasks	- **developing** the module Rolacommitter. - **setting up** the SVN infrastructure.
	technologies	Borland C++, SVN, Windows
	tools	Embarcadero CodeGear C++, SVN
Fachgruppe eCH-0051	year	2012 - 2015
	info	I work in the expert committee of police exchange format.
	tasks	- **enhance** the XML standard eCH-0051.
	technologies	XML
	tools	-
Credit Suisse		
I-Synd	year	end of 2006 - begin of 2008
	info	I-Synd is a software developed by IPREO as a platform for fixed income primary market issues. The Credit Suisse global instance is running productive for a couple of years. With external access for investors, internal access for Sales and Syndicate members and front to back processing over an internal developed STP bridge. Because of the Swiss bank laws, Swiss customer data mustn't leave Switzerland. That's why there must be a separate instance of I-Synd in Zurich.
	tasks	- **initial integration** of bill & delivery functionality. Together with the developing team in New York I was able to adapt the STP bridge for our backend system (z/OS Mainframe) over IBM MQ. - **developing** Reports from I-Synd's Oracle database. It's a Java application which generates a well formatted Excel sheet. - **developing** a file feed to sales credit system. - supporting tasks **transferred** to 1st and 2nd level support groups. - **integrating** upcoming patches and infrastructure changes with corresponding teams in Credit Suisse Zurich.
	technologies	Java, JSP, Oracle, bash, iPlanet, Siteminder, WebLogic, IIS, Windows, Solaris, Linux
	tools	ANT, ClearCase, VSS, Eclipse, WLST, DBArtisan
Vision	year	2005 - ongoing
	info	Vision is an Java application used for the Repo business. It's developed and maintained in London/Singapore. Our responsibility in Zurich is the infrastructure and connection to the SWX EurexRepo exchange, where the Swiss Repo business takes place.
	tasks	- **supporting** the trading client GUI provided by SWX EurexRepo. - **maintaining** of a Java application which builds the interface between Vision and the exchange. It's based on the SWX EurexRepo API and

		written in Java. - **migration** IBM MQ to SSL - **provide** front to back test trades for enhancements in our backend systems
	technologies	Java, IBM MQ, SYBASE, Windows, SWX EurexRepo API
	tools	Eclipse, ClearCase, DBArtisan
BOI	year	2006 - ongoing
	info	The **B**ack **O**ffice **I**nterface is a multiprocessing legacy application from before 2000 written in C++, with an interface to the external exchanges on one side and an interface over IBM MQ to our backend system (z/OS Mainframe). There are web based monitors and in Java written tools for maintaining BOI.
	tasks	- **developing** a new BOI instance for Clariden Leu to settle trades over BOI into CS backend Mainframe. - **coordinate** BOI release together with IT Clariden Leu start new flow. - **adapting** BOI monitoring tools - **integrating** new Oracle database - **developing** enhancements in message formats. - **3rd level support** within trade flow front to back (setting up new products, tracing messages)
	technologies	C++, Java, Oracle, Solaris
	tools	ANT, ClearCase, SunStudio, VI
rConciler	year	2007
	info	rConciler is a legacy client-server based application to reconcile fixed income and equity trades between external exchanges and Front Arena
	tasks	- **changing** reconciliation from another position keeping application to external exchanges. - **developing** small enhancements and bug fixes
	technologies	C++, Solaris, Windows
	tools	ANT, ClearCase, SunStudio, Microsoft Visual Studio
POS	year	2006 - 2007
	info	The position keeping tool is a internally written, legacy C++ application which was replaced by a newly bought system. It was connected to several systems over IBM MQ. One Sybase database with several stored procedures, triggers to maintain history and availability of data. Lots of batch jobs to synchronize database with other systems over FTP.
	tasks	- **support** of application in case of failure of any feeds. - **migration** IBM MQ to SSL - **decommissioning** step by step all dependencies with surrounding systems.
	technologies	C++, HTML, Sybase, Solaris
	tools	ClearCase, bash, DBArtisan, VI
OTC confirmation server	year	2006 - 2007
	info	For OTC trades in fixed income and equity products the confirmation fax to customers is send thru the OTC confirmation server. Part of this solution is Mercator, a messaging broker system also compatible to IBM MQ and Scrittura, a workflow system based on Weblogic.
	tasks	- **support** of application in case of failure of any feeds. - **migration** IBM MQ to SSL - **decommissioning** of feeds thru Mercator
	technologies	Mercator, Scrittura, HTML, WebLogic, Sybase, Solaris
	tools	ClearCase, bash, DBArtisan, VI

Schneider Software		
WinBau modules	year	09 / 2001 - 10 / 2005
	info	WinBau is an Windows application build in several modules or executables, each for a separate purpose (Offers, building controlling, planning, cost estimate, prize catalogue and more...)
	tasks	- **developing** new customer functionality. - **bug fixing** in all modules and framework.
	technologies	C++, dBase
	tools	Microsoft Visual Studio, VSS, doxygen
WinBau ticketing system	year	2005
	info	for better tracking of enhancements and bug lists we introduced a new ticketing tool for 1st level support / testers and programmers.
	tasks	- **analysis** of requirements and existing tools - **design/programming** of the new ticketing application
	technologies	C++, dBase, Schneider framework
	tools	Microsoft Visual Studio, VSS, doxygen
Bedag		
online job fare	year	04 / 2000 - 09 / 2001
	info	Bedag AG is the privatized IT department of the canton Bern. During my studies in Bern I was working on the first online job fare http://www.be.ch/jobs/ for Bedag AG.
	tasks	- **developing** JSP and program logic in Java. - **testing** new functionality
	technologies	Java, JSP, IBM CICS
	tools	IBM VisualAge for Java