

Marek Spisak

Software and Database Developer, Database and Network Administrator and System Engineer

marek@spisak.cz

Summary

Designing, developing and maintaining applications and databases, databases optimization for different projects - Health Care, Automotive Industry, Lawyers, Food Industry.

Multiagent system implementation, business processes simulation.

Specialties

[Programming languages]: Pascal, Delphi, Visual Basic, C/C++, C#, Java, SQL, XML, HTML

[Development Environments]: Borland Pascal, Borland Delphi, Borland C++ Builder, Borland Kylix, Eclipse, Microsoft Visual Studio 6.0, 2003, 2005, 2008, 2010, SQL Server Reporting Services

[Databases]: MS-SQL, Interbase, Firebird, Superbase, Oracle, Access, Paradox, DBase, Foxpro

[Operating Systems]: MS Windows, Linux, Novell Netware

Experience

Assistant Professor at Silesian University in Opava

February 2003 - Present (9 years 1 month)

Teaching Computer Science, Object Oriented Programing, Programming Technology (C#) and Programming Techniques (C++).

1 recommendation available upon request

Independent Professional - self employed at Marek Spisak

November 1997 - Present (14 years 4 months)

SW and Database Development, Network and Database Administrator, System Engineer, Consultant, Lector and Tutor: projects for municipalities, food industry.

Software and Database Developer, Network Administrator and System Engineer at E.S.Com, s.r.o.

2003 - January 2012 (9 years)

Analyze, design and implementation of different projects - especially for Health Care and Automotive Industry. Closer description vide CO.G.I.T.O. srl description.

Network administrator and system engineer.

4 recommendations available upon request

Software and Database Developer at CO.G.I.T.O. srl

1998 - January 2012 (14 years)

Analyse, design and implementation of projects mainly in Automotive and Health Care Industry.

Information system for automobile dealers and service (process management, back office), used by dealers of many marks - eg. Mercedes, Smart, MAN, VW, etc. - X.Automotive

System for mass processing of medical prescriptions for pharmacies revenue evaluation - GTR. Processing included prescription collection, OCR digitalization, processing and reporting national insurance companies and public administration.

The work covered database designs and optimization, application design and complete application development life cycle.

1 recommendation available upon request

SW Developer, Analyse, Network administrator at Benefit Systems

February 2000 - December 2002 (2 years 11 months)

Programming in Borland Delphi. Applications for Lawyers, Accountment. Complete responsibility for technology, analyse, design.

SW Developer at Logikon Benefit

January 1996 - February 2000 (4 years 2 months)

Development of accounting and economical applications in Visual Basic for Application MS Access.

Projects

WOA - Work Order Automation

February 2007 to July 2008

Members: Marek Spisak, Pavel Pawlowski, David Mžyk, Radomir Perzina

Design and development of system for Work Order Automation for service centers of Sky Italia.

System was based on MS SQL Server and front-end written in C# using Microsoft Visual Studio.

For project reporting purposes were used SQL Server Reporting Services.

MISAD-C - Management Information System for Automotive Dealers

September 1998 to July 2001

Members: Marek Spisak, Pavel Pawlowski

Implementation of Euro support into Italian Management Information System for Automotive Dealers used by distributors of Mercedes Benz, Smart, Chrysler, Mitsubishi, Opel, Chevrolet,

Peugeot, MAN, Subaru, Škoda/Seat, Suzuki, Volkswagen, Audi, MAN and others.

Implementation of new features and improvements during application life cycle.

PDO – System for accounting of domestic refuse for city of Rychvald

1999 to 1999

Members: Marek Spisak, Pavel Pawlowski

Development of system for accounting of payments for domestic refuse for city of Rychvald.

System was written in Borland Delphi and relayed on Borland Database Engine.

ISF - Information System of Firm

1998 to Present

Members: Marek Spisak, Pavel Pawlowski, David Mžyk

Development of Information system for viands producent.

A complete design and development from Database Layer to GUI.

System is responsible for collecting orders, calculation of ingredients consumption for production, handling of Bill of Materials, invoices, management of warehouse for products and ingredients.

After primary delivery a continuous support and eventual improvements are implemented.

First release of system was written in Visual Basic and based on MS Access. Later was rewritten in Client-Server manner, based on Firebird database and completely written in C++ using Borland C++ Builder.

GTR - Gestione Tariffazione Ricette

July 2001 to February 2009

Members: Marek Spisak, Pavel Pawlowski, David Mžyk

Development of the system for massive medical prescriptions.

The goal of the system was to pick papery prescriptions, digitalize with hi-speed scanners, optical recognition of medicines and other information available on the prescription, checking of correctness of all information and in the final phase calculation of pharmacies revenue and generation of reports for health insurance companies and ministry of health.

The original solution were implemented in companies processing 350 000 - 750 000 prescriptions per month.

After the final implementation there was continuous support and enhancements of the system.

System is based on Firebird database backed and written in Borland C++ Builder. System integrates medicine database provided by external companies specialized for maintaining of such databases.

ADVOKADO

2000 to 2002

Members: Marek Spisak, Martin Sztemon

Analyse, design and implementation of information system for lawyers. System was covering the whole lawyer process cycle and backoffice needs.

It was written in Borland Delphi on Borland Database Engine

Benefit Accountment

2000 to 2002

Members: Marek Spisak, Martin Sztemon

Analyse, design and implementation of accountment software for the accounting company and tax consultant.

Application written in Borland Delphi, database Interbase.

X.Automotive

2004 to January 2012

Members: Marek Spisak, Pavel Pawlowski, David Mžyk, Radomir Perzina, Roman Zuczek, Massimo Barbieri, Marco Fabbri, Marcello Stagni, Stefano Matteuzzi

Information system for automobile dealers and service (process management, back office), used by numerous number of dealers of many marks - eg. Mercedes, Smart, MAN, VW, etc.

Development of a new system for automotive dealers based on the SQL Server back-end and front end development in Microsoft .NET using C#.

System was build using custom framework in front of .NET. For reporting purposes SQL Server Reporting Services were used.

Analyse, application and database design, implementation and Czech team leadership.

Publications

FINANCIAL MARKET SIMULATION BASED ON INTELLIGENT AGENTS – CASE STUDY

Spiru Haret University, Faculty of Financial Management Accounting Craiova

Authors: Marek Spisak, Roman Sperka

We implement an agent-based financial market model simulation in which agents follow technical and fundamental trading rules to determine their speculative investment positions. We consider direct interactions between speculators due to which they may decide to change their trading behaviour. For instance, if a technical trader meets a fundamental trader and they realize that fundamental trading has been more profitable than technical trading in the recent past, the probability that the technical trader switches to fundamental trading rules is relatively high. In particular the influence of transaction costs is studied, which can be increased by the off-market regulation (for example in the form of taxes) on market stability, the overall volume of trade and other market characteristics.

Languages

English	(Full professional proficiency)
Czech	(Native or bilingual proficiency)
Slovak	(Native or bilingual proficiency)
Polish	(Elementary proficiency)

Skills

Visual Studio
Pascal
Visual Basic
SQL Server
C#
XML
SQL
Databases
HTML
C++
Delphi
Windows
Borland Delphi
Interbase
Borland C++
Firebird
Operating Systems
.NET
ASP.NET
Software Development

OOP
UML
WinForms

Education

Silesian University in Opava

PhD, Economics, Applied Informatics, 2009 - 2013

Activities and Societies: Multiagent System Implementation, Financial Market Simulation, Business Processes Simulation

Silesian University in Opava

Ing., System Engineering and Informatics, 1997 - 2001

Commercial Academy in Orlová

graduation, Economics, 1991 - 1996

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6 people have recommended Marek

"We hired Marek for writing User documentation to our SW system. We provided Use Case model of the system and Marek completed the documentation. With minimal requirements for our time Marek has delivered results as needed."

— **Jan Vl#insky**, was Marek's client

"Marek is experienced developer with calm and focused approach. Has valuable analytic and leadership skills. He is always friendly and ready to help."

— **David M#zyk**, *Software developer, E.S.Com, s.r.o.*, worked directly with Marek at E.S.Com, s.r.o.

"Marek is very good programmer with very good knowledges of many development tools and very high analytic intellection. We are working together for more than 12 years in a company and also on our private projects and I can say, that he is the person you can count with."

— **Pavel Pawlowski**, *Software Developer, E.S.Com, s.r.o.*, worked directly with Marek at ESCOM

"Marek is the kind of guy you would like him to join your team when things go wrong. I had the pleasure to work along with him on IT complex projects, and I also appreciated his experienced veteran developer and analyst skills, as well as his own human qualities of disposability and niceness."

— **Massimo Barbieri**, *Senior developer, cogito*, worked directly with Marek at ESCOM

"Marek is a good software Team Leader. He demonstrated high skill of communication with abroad co-workers, of process analysis and software development in complex environments. In my last experience he was the point of reference for management of Software Factory. He also is a big worker as software developer and always ready to give the maximum of her efforts to reach the goals."

— **Martin Garcia**, *Project Manager and Software Developer, COGITO Srl*, worked directly with Marek at ESCOM

"Marek is a very good developer, with strong knowledge in many areas of the software

development. Plus, he adds personal skills, as his ability of adaption and ease of quickly focusing on a goal in a multi task environment, that makes Marek a really reliable colleague and a good person."

— **Marco Fabbri**, *CTO, CO.G.I.T.O. srl*, managed Marek at CO.G.I.T.O. srl

[Contact Marek on LinkedIn](#)