

Case studies

Knowledge Domain	UML
Working since	2005
Experience	Intermediate
UML is the basis of INTSPEI development methodology. It was widely used during the development process.	
I have participated in two speechless modelling sessions (see INTSPEI whitepaper)	

Knowledge Domain	C#
Working since	2003
Experience	MCPD (70-526, 70-536)
Projects	<ul style="list-style-type: none">• INTSPEI P-Explorer (Beta1),• Fenestra,• Footstep,• CKC
I've used this language both for my academic research and commercial projects development.	
The most outstanding achievements in this field is participation in World Final of Imagine Cup in Seoul (2007) and the twice participation in Western European Final of Imagine Cup competition (2005, 2006). In Seoul your project Fenestra (see last page) was in Top 12.	
During working at INTSPEI I've worked on P-Explorer which is developed on .NET Platform. P-Explorer is a software product for managing traceability information about project.	

Knowledge Domain	ASP.NET
Working since	2004
Experience	Intermediate
Projects	<ul style="list-style-type: none">• INTSPEI Website CMS ,• Footstep Website,• Books search engine
http://www.intspei.com	
http://www.consorito.com	

Knowledge Domain	XML Web Service
Working since	2004
Experience	Advanced
Projects	<ul style="list-style-type: none"> • Fenestra, • Footstep, • CKC
<p>I've developed several web services for our Imagine Cup projects and one participate in development for CKC project.</p> <p>Fenestra Risk Game web service is available on-line: http://fservice.consortito.com/service.asmx</p> <p>Footstep project had three Web Services: Data, Communication and Media.</p> <p>Data – implements data access layer Communication – send messages between users (ICQ, E-Mail, SMS) Media – works with media information (Geographical, Photo and Audio)</p>	

Knowledge Domain	DBMS
Working since	2002
Experience	Upper Intermediate
Projects	<ul style="list-style-type: none"> • INTSPEI Website CMS , • INTSPEI P-Explorer (Beta 1), • Fenestra, • ERE System, • Terrasoft CRM System, • Footstep, • Agent-Management System, • CKC, • Books search engine
<p>I have experience with MS SQL Server 2000, 2005; MySQL; Interbase; MS Access.</p> <p>I have developed several databases for my projects and work with existing databases (developing stored procedures, extending data model, etc).</p>	

Knowledge Domain	.NET Compact Framework
Working since	2005
Experience	Base
Projects	<ul style="list-style-type: none"> • Footstep Website
<p>I have developed Footstep PocketPC client.</p> <p>Using this experience I have published an article on CodeProject: http://www.codeproject.com/useritems/PocketRegistry.asp</p>	

Knowledge Domain	C / C++
Working since	2001
Experience	Upper Intermediate
<p>I have used these languages to develop some tools and libraries for the most exacting to productivity problems (computational algorithms, parsing, etc) mostly for academic environment.</p> <p>Direct Show Video Filter – the COM objects which extracts the moving objects from still background. It uses linear filters to suppress noise and colour metrics to extract moving objects.</p> <p>I have developed two other direct show filters to transfer (send and receive) live video over IP networks. I've used these objects to build GUI ActiveX component that enables to capture video stream from Web Camera and transfer it over networks for organization video chat.</p> <p>Also, I've ported the SAD system (http://ea.unicyb.kiev.ua) from Linux to Windows platform. The core modules of the system are developed using C and Haskell programming languages.</p>	

Knowledge Domain	Java, Servlets, EJB, JSP
Working since	2004
Experience	Intermediate
Projects	ERE System, ForTheL desktop
<p>I've used Java language to build the GUI for SAD system. The developed GUI is able to perform the syntax highlight for the input language. It uses threads and processes to execute external modules, intercept the input and output streams, process them and show the results.</p> <p>Using J2EE technologies I've developed the prototype of the system for managing software requirements. The requirements are divided into classes and stored in the database in the tree-like structure. Each requirement class is described by the attributes. The attribute is the triple (name, type, value). The system's administrator is able to edit the requirements structure. This prototype and corresponding theoretical information is described in my master thesis.</p>	

Knowledge Domain	Delphi
Working since	1998
Experience	Advanced
Projects	Arena 2
<p>I have used Delphi in variety of small projects and I have developed a strategy game Arena 2: http://ppp-extr.h1.ru , http://www.protsyk.com/Arena2/index.htm</p>	

Summary of some Projects

INTSPEI P-Explorer (<http://www.intspei.com>)
Integration with Sharepoint, TFS, XMI (xpath, xsl),
COM,
Visualization components – Graph Drawing,
UML

INTSPEI Web Site CMS system (<http://www.intspei.com>)
XSL,
Data Base,
HTML + CSS,
ASP.NET

Fenestra
<http://www.protsyk.com/Fenestra>,
<http://www.consortito.com>

WPF, WCF,
XSL + XML,
ActiveX,
.NET Remoting

Footstep (<http://www.protsyk.com/Footstep/>)
WebServices,
ASP.NET,
Agent-Mangement Distributed system,
Client application (WinForms),
PocketPC Application

ERE (<http://www.gratisjsp.org/eresystem/>)
Java,
Jsp,
Enterprise JavaBeans

More information and source code examples are hosted at my
web-site: <http://www.protsyk.com>