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## Personal Details

**Name:** Mihai Andrei

**Position:** Senior Technical Lead / Senior Architect

**Year of birth:** 1981

**IT experienced since:** 2003

**Education:** 1999 – 2005 Bachelor of Science (IT) Politehnica University, Bucharest



**Profile Summary:** Mihai Andrei is a senior .NET/C# software developer, with strong related competences in system analysis, system test and system architecture.

Mihai Andrei has theoretical and practical knowledge regarding general patterns and practices, a good knowledge of current security standards, and is very experienced in agile development methods (Scrum, automated testing).

He is also a WinForms expert with related competences in WebForms and Web Services (SOA). Mihai Andrei is a very structured and methodical person and is very quick in learning new technologies and IT processes.

Mihai Andrei has worked primarily with the following technologies: .NET (1.1., 2.0, 3.5), .NET Compact Framework, C#, ASP.NET, Remoting, Web Services and SOA, WCF, WPF, Silverlight, SQL, Microsoft SQL Server 2005 / 2008, Oracle 9i and 10g.

## Project experience

|                             |  |
|-----------------------------|--|
| <b>Period:</b>              | 2009/01 - 2009/06  |
| <b>Client:</b>              | Interbrands (intermediated by Optima Group)  |
| <b>Project Description:</b> | <p>Development of a real-time stock confirmation service to be used by sales agents in the field (the agents are using PDAs to gather stock orders). An application built upon .NET Compact Framework was the client for the service. The service was accessing the Oracle servers to handle the stock orders.</p> <p>Mihai Andrei extensively worked on the analysis and design of the solution, prior to development phase.</p> <p>Due to the PDA's GPRS slow networking, the communication between the client (PDA, .NET CF) and the web service required implementing a custom reliable messaging mechanism. Also, a custom SOAP extension was implemented, that</p> |



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|---------------------------|---|
|                           | <p>offered three needed features (configurable both client and server side): message archiving, encryption and logging.</p> <p>Mihai Andrei also handled a set of benchmarks on the Stock Confirmation Service.</p> |
| <b>Used technologies:</b> | .NET 2.0, .NET Compact Framework 2.0, Web Services, Oracle 9i   |
| <b>Role in project:</b>   | System Development, System Design   |

|                             |  |
|-----------------------------|--|
| <b>Period:</b>              | 2007/11 - 2008/08  |
| <b>Client:</b>              | Interwoven Inc. (intermediated by Gemini Solutions)  |
| <b>Project Description:</b> | <p>Development of Scrittura WordML, the client-side of the Interwoven's Scrittura Platform - a document management solution used in the finance trading sector.</p> <p>Mihai Andrei was responsible with upgrading the existing template editor module to a Office Word 2003 and then Office Word 2007 add-in.</p> <p>The 2003 Add-In was created with VSTO SE, using Word 2003 document customization and custom xml schemas. The 2007 Add-In was created with VSTO SE, targeting the Word 2007's new features – Ribbon, Content Controls, custom XML parts, building blocks.</p> <p>Regarding the Word 2007 version, Mihai Andrei extensively worked on research and analysis of the new Office 2007 platform, and also on designing a new template editor with extra capabilities – like client-side preview, new template controls (tables, nested repeaters).</p> <p>The template editor was also heavily interacting with the Scrittura's server-side components (Java-based), like DocManager and DocGenerator.</p> |
| <b>Used technologies:</b>   | .NET 2.0, VSTO SE (Visual Studio Tools for Office, Second Edition), WebDAV   |
| <b>Role in project:</b>     | System Developer, System Design  |

|                             |  |
|-----------------------------|--|
| <b>Period:</b>              | 2006/10 - 2007/04  |
| <b>Client:</b>              | Pure Digital Technologies (intermediated by Gemini Solutions)  |
| <b>Project Description:</b> | <p>Development of a framework for instrumenting .NET applications, which in the end targeted the resulted monitoring output to the MOM platform (Microsoft Operations Management).</p> <p>Prior to development, Mihai Andrei was doing the research, analysis and documentation work in the creation of the instrumentation framework solution.</p> <p>The development was made by using COM technology combined with Win32 IPC synchronization mechanisms for implementing a custom WMI provider, MOM SDK, .NET platform and Win32Api wrappers for the rest of the functionalities.</p> |



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|---------------------------|---|
|                           | Mihai Andrei also worked on integrating the instrumentation framework for several in-production modules, and also on implementing Automated Test solutions in order to monitor the performance and throughput of these modules. |
| <b>Used technologies:</b> | .NET 1.1, C++ (COM), WMI platform, MOM (SCOM) SDK, Win32 IPC  |
| <b>Role in project:</b>   | Research, System Architect, System Development  |

|                             |   |
|-----------------------------|---|
| <b>Period:</b>              | 2005/11 - 2006/06   |
| <b>Client:</b>              | RATB (intermediated by UTI Systems)   |
| <b>Project Description:</b> | <p>Development of a communication infrastructure for a large project with the local transport company (RATB). The communication infrastructure was the linkage of the front-end equipments with the back-end servers. It was represented by a web of WSE 3.0 services, designed in a SOA manner.</p> <p>Mihai Andrei worked both on the SOA design and on the web service implementations.</p> <p>Technical issues encountered: reliable messaging, obtaining a good processing load, security, creating a generic implementation for the web services, creating an intelligent conversation between services.</p> <p>Mihai Andrei also worked on designing and implementing a "smart client" application kit (cache, update blocks and other target project specific features), and also on the internal framework development that was used as a base for the development process for this project.</p> |
| <b>Used technologies:</b>   | .NET 2.0, WSE 3.0, SOA, Sql Server 2000, Oracle 9i, Microsoft Application Blocks  |
| <b>Role in project:</b>     | System Development, System Design, Team leader responsibilities (for a part of the development team)  |

|                             |   |
|-----------------------------|---|
| <b>Period:</b>              | 2003/08 - 2004/03   |
| <b>Client:</b>              | Medicover Poland (intermediated by Totalsoft)   |
| <b>Project Description:</b> | <p>Development of a distributed application in the medical business.</p> <p>The application itself was handling all the business inside a medical center, to name some aspects: handling patient lists, periodical appointments, laboratory analysis, analysis results, HR management for the personal working in the medical center.</p> <p>In a team of 15 software developers, Mihai Andrei worked on implementing parts of a framework that the rest of the development process was depending upon, then on implementing certain modules part of the global application and after the first release on bug solving and software updates for the entire application.</p> |



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|---------------------------|---|
|                           | During development, Mihai Andrei was also responsible with programming a fast-speed scanner for automated reading of the analysis results (the machine was capable of handling around 100 papers/minute). |
| <b>Used technologies:</b> | .NET 1.1, C#, WinForms, Remoting, Microsoft SQL Server 2000   |
| <b>Role in project:</b>   | System Development  |

## Languages

**Spoken level:** Native language, Fluent, Negotiation level, Conversation level, Some understanding

**Written level:** Academic, Presentation proficient, Documentation proficient, Some writing skills, Poor

| Language | Spoken level      | Written level            |
|----------|-------------------|--------------------------|
| Romanian | Native            | Presentation proficient  |
| English  | Negotiation level | Documentation proficient |

## Competences

**Competence levels:** Expert, Very experienced, Experienced, Good knowledge, Some knowledge

| Category            | Competence                | Level            | Last Used | Years |
|---------------------|---------------------------|------------------|-----------|-------|
| <b>Working Area</b> |                           |                  |           |       |
|                     | Agile Methods             | Very experienced | 2011      | 3     |
|                     | Architecture              | Experienced      | 2011      | 4     |
|                     | Automated Testing         | Experienced      | 2011      | 2     |
|                     | Backend                   | Very experienced | 2011      | 5     |
|                     | Outsourcing               | Very experienced | 2011      | 4     |
|                     | Payment Card Systems      | Good knowledge   | 2005      | 1     |
|                     | Programming               | Expert           | 2011      | 8     |
|                     | Project Management        | Experienced      | 2011      | 2     |
|                     | Requirement Specification | Good knowledge   | 2010      | 2     |
|                     | Scrum                     | Very experienced | 2011      | 2     |
|                     | System Analysis           | Experienced      | 2011      | 4     |
|                     | System Design             | Very experienced | 2011      | 4     |
|                     | System Development        | Very experienced | 2011      | 4     |
|                     | System Integration        | Very experienced | 2011      | 4     |
|                     | System Optimization       | Very experienced | 2011      | 4     |
|                     | Team Lead                 | Experienced      | 2011      | 2     |



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|                     |  |                  |      |   |
|---------------------|--|------------------|------|---|
|                     | Technical Project Management                     | Experienced      | 2011 | 2 |
|                     | Test Development                                 | Experienced      | 2011 | 2 |
|                     | Web Development                                  | Very experienced | 2011 | 4 |
|                     | Web Services                                     | Expert           | 2011 | 5 |
|                     | WCF  | Very experienced | 2011 | 2 |
|                     | WMS (Warehouse Management System)                | Experienced      | 2011 | 2 |
|                     | Workflow and Document Management                 | Very experienced | 2008 | 1 |
| <b>Languages</b>    |  |                  |      |   |
|                     | C# (C-Sharp)                                     | Expert           | 2011 | 8 |
|                     | C++  | Experienced      | 2009 | 1 |
|                     | JavaScript                                       | Experienced      | 2011 | 3 |
|                     | Managed C++                                      | Experienced      | 2008 | 1 |
|                     | SQL  | Very experienced | 2011 | 6 |
|                     | VB.NET   | Good knowledge   | 2009 | 1 |
|                     | XPath  | Experienced      | 2008 | 2 |
|                     | XSLT   | Experienced      | 2008 | 1 |
| <b>Technologies</b> |  |                  |      |   |
|                     | .NET   | Expert           | 2011 | 8 |
|                     | .Net Compact Framework                           | Experienced      | 2011 | 2 |
|                     | ADO.NET  | Very experienced | 2011 | 5 |
|                     | ASP.NET  | Very experienced | 2011 | 5 |
|                     | Client-Server Architecture                       | Expert           | 2011 | 5 |
|                     | COM/DCOM   | Good knowledge   | 2006 | 1 |
|                     | DOM - Document Object Model                      | Good knowledge   | 2009 | 2 |
|                     | Flex (Adobe)                                     | Good knowledge   | 2008 | 1 |
|                     | FQL (Facebook Query Language)                    | Good knowledge   | 2008 | 1 |
|                     | LINQ   | Very experienced | 2011 | 2 |
|                     | NHibernate                                       | Experienced      | 2007 | 1 |
|                     | REST   | Experienced      | 2008 | 1 |
|                     | SOAP   | Very experienced | 2009 | 4 |
|                     | STP (Stored Procedures)                          | Very experienced | 2009 | 5 |
|                     | Web  | Very experienced | 2011 | 5 |
|                     | Web Services                                     | Expert           | 2011 | 5 |
|                     | XML  | Very experienced | 2011 | 4 |
|                     | XSD  | Experienced      | 2007 | 2 |
| <b>Platforms</b>    |  |                  |      |   |
|                     | Microsoft Windows Server 2003 Enterprise Edition | Very experienced | 2009 | 4 |
|                     | Microsoft Windows 7                              | Very experienced | 2011 | 2 |
|                     | Microsoft Windows XP                             | Very experienced | 2011 | 8 |
|                     | Windows Mobile 6                                 | Experienced      | 2011 | 2 |



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| Databases                     |   |                  |      |   |
|-------------------------------|---|------------------|------|---|
|                               | Microsoft SQL Server 2000                 | Very experienced | 2005 | 3 |
|                               | Microsoft SQL Server 2005                 | Very experienced | 2011 | 4 |
|                               | Microsoft SQL Server 2008                 | Very experienced | 2011 | 2 |
|                               | Oracle 10g                                | Very experienced | 2009 | 1 |
|                               | Oracle 9i                                 | Very experienced | 2009 | 2 |
|                               | Sybase Adaptive Server                    | Good knowledge   | 2005 | 1 |
| Development tools             |   |                  |      |   |
|                               | Apache Ant                                | Some knowledge   | 2008 | 1 |
|                               | CruiseControl.NET                         | Good knowledge   | 2011 | 1 |
|                               | Crystal Reports                           | Experienced      | 2009 | 2 |
|                               | CVS                                       | Very experienced | 2009 | 3 |
|                               | Microsoft Enterprise Library              | Very experienced | 2011 | 4 |
|                               | Microsoft Reporting services              | Experienced      | 2007 | 1 |
|                               | Microsoft Silverlight                     | Good knowledge   | 2009 | 1 |
|                               | Microsoft SQL Enterprise Manager          | Expert           | 2011 | 6 |
|                               | Microsoft Visual Source Safe              | Very experienced | 2006 | 3 |
|                               | Microsoft Visual Studio .NET              | Expert           | 2011 | 8 |
|                               | Perforce                                  | Very experienced | 2007 | 1 |
|                               | SVN (Subversion)                          | Very experienced | 2011 | 4 |
| Middleware OS system software |   |                  |      |   |
|                               | Enterprise Service Bus (ESB)              | Very experienced | 2009 | 2 |
|                               | Microsoft Operations Manager 2005         | Experienced      | 2007 | 1 |
|                               | Microsoft Web Services Enhancements (WSE) | Very experienced | 2009 | 3 |
|                               | WMI                                       | Very experienced | 2007 | 1 |
| Methods                       |   |                  |      |   |
|                               | Continuous Integration                    | Experienced      | 2011 | 2 |
|                               | Design Patterns                           | Very experienced | 2011 | 5 |
|                               | Proof of Concept (PoC)                    | Very experienced | 2011 | 4 |
|                               | Regular Expressions (RegEx)               | Experienced      | 2011 | 2 |
|                               | Scrum                                     | Very experienced | 2011 | 3 |
|                               | Stress Testing                            | Very experienced | 2011 | 4 |