

## AREAS OF EXPERTISE

- Senior technical executive with over twenty five years of broad information technology development and management experience
- Highly independent, with a strong sense of ownership for assigned tasks, acutely focused and goal oriented, and with the history of successfully completed projects (references available upon request)
- Strong leadership and team building skills
- Proficient in management, organization and administration
- Strong combination of technical and analytical expertise
- Proven abilities in integration of large complex systems
- Excellent communication, interpersonal and entrepreneurial skills

### **Programming Languages / Technologies:**

- Java, J2EE, JSP, EJB, PHP, Applet, Servlet, JavaScript, C++, Visual C++

### **Operating Systems:**

- Windows, UNIX (DEC, Solaris, HP), OS-2, VRTX, VMS, OS-9, PDOS

### **Object Oriented Design:**

- UML and RUP using Rational Rose, TogetherJ and System Architect

### **Internet Technologies / Communication:**

- HTML5, CSS, XML, HTTP, SMTP, TCP/IP, WordPress

### **Servers:**

- WebSphere, ServletExec, IIS, Apache, Netscape,

### **Data Base Technologies:**

- MS SQL, Sybase, Oracle, MySQL, MariaDB - ODBC, JDBC, PL/SQL, SP

### **Other:**

- Real-Time Multitasking Systems
- Embedded Real-Time Automatic Process Control Systems
- Communication Protocols and Drivers
- Point Of Sale Applications

## PROFESSIONAL EXPERIENCE

### **Koneksus** – Belgrade, Serbia

CTO

Java, J2EE (JSP, EJB, Servlet), C++, PHP, JavaScript, HTML5, CSS, WordPress

Communication: TCP/IP, HTTP, FTP

DB: Oracle, Sybase, MySQL, MariaDB

Design and development of several projects for Canadian and EU market:

- Server Clients portal application for Beta News Agency - more than 20 sites and special entry points, which presents and collects news agency data.  
Java, J2EE (JSP, EJB, Servlet), PHP, JavaScript, HTML5
- [eProperty](#) – A software solution that provides managers with professional building management, and tenants with insight into the events in their building, from any device (from computer to telephone), wherever they are (in the apartment, at work or on the road).  
PHP, JavaScript, jQuery, Bootstrap, HTML5, CSS

### **Belgrade fair** – Belgrade, Serbia

IT Director

Organizational projects and tasks – management of 198 Employees

As a manager, led the organization of information services, security, video surveillance, mobile and fixed telecommunications and presentation techniques.

PHP, JavaScript, HTML5, CSS, C++, C# on DEC UNIX and Windows

**ZOX Technologies, Inc.** – Toronto, Ontario, Canada

CTA, CTO acting

Java, MS Windows, UML OO design, RUP

Chief Technology Architect in a start-up company developing a secure distributed information management technology, facilitating collaborative creation and sharing of knowledge through the use of executable business process models.

- Drove corporate technical strategy
- Led the design of the conceptual and logical system architecture
- Participated in ZOX Security architecture design and development using a combination of Symmetric and Asymmetric algorithms with 3DES encryption standard and MD5 message authentication
- Co-authored patent filing covering concepts, architecture and implementation
- Defined a disciplined, predictable development process based on the RUP methodology
- Assessed role of advanced technologies (Web Services, JESS, etc.)
- Managed and participate in development of the proof-of-concept prototype based on J2EE technologies using WebSphere as application server.
- Contributed to preparation of funding proposals under the Industrial Research Assistance Program
- Created a repository of architecture documentation using an internal web site

**Ontario Government – Economic and Business Cluster**, Toronto, Ontario, Canada

Lead Architect

Java, J2EE (JSP, EJB), UNIX, MS Windows

Responsible for overall system architecture and design.

- Led cross-cluster implementation teams and provided architectural leadership to deliver Integrated Application Solutions.
- Evaluated, selected and implemented Enterprise-Wide Solutions applying proposed Government standard such as J2EE, MQ Series, Oracle etc.
- Evaluated and participated in the creation business requirements for several projects.
- Designed a three-tiered J2EE-based Web application using RUP methodology.

**Aspro Technologies Limited**, Toronto, Ontario, Canada

System Architect / Project Leader

Java, JavaScript, J2EE (JSP, EJB, Servlet, WebSphere), C++ on UNIX and MS Windows 2000

Communication: HTTP, COM, SOAP (XMLrpc) DB interface: JDBC, ADO

Responsible for the implementation of technology to provide digital video and audio high-speed Internet communication by establishing, monitoring and controlling half-duplex and full-duplex voice and video links over TCP/IP.

- Created a complete architectural system design using Rational Rose UML Object Oriented methodology.
- Managed product development and participated in implementation, such as:
  - Designed and developed a three-tiered Web application using J2EE technology.
  - Designed and participated in creation of a real-time voice and video communication.

**Solect**, (Division of **Amdocs**), Toronto, Ontario, Canada

Senior Developer

Java, J2EE (JSP, EJB, Servlet), JavaScript, and Perl on HP UNIX and MS Windows 2000

Communication: HTTP DB interface: ODBC, JDBC, PerlDB and PL SQL on Oracle

- Participated in the architectural design and development of a complex Solect/Amdocs billing application based on HP UNIX as a background logic and Internet as user interface (three-tiered application using J2EE technology)
- Developed and maintained several new Solect/Amdocs billing application features
  - Reading an electronic card created for online users (Servlet)
  - Routing and transferring data over TCP/IP to the corresponding processing center (JSP)
  - DB Communication and verification of received data (EJB)

**Teranet**, - Toronto, Ontario, Canada

Technical Architect

C++ and Java on Solaris / DEC UNIX and Windows NT

Communication: HTTP, SMTP, DB interface: ODBC, JDBC, HTTP servers: IIS, Apache, NS

Implemented a hi-tech real-time automatic control Integrated Justice project for the complete Canadian justice system as follows:

- Designed OO project-level architecture, compliant with System Architecture requirements according to functional and operational requirements
- Provided data analysis using structural, object-oriented methods such as Case and Data Diagrams by using UML and Rational Rose
- Evaluated some off-the-shelf packages by developing prototypes with corresponding implementation.

**FaxForward**, Toronto, Ontario, Canada (current Conexys)

Senior Software Engineer / Technical Architect / Project Leader

C++ on DEC UNIX and Windows NT

Communication: TCP/IP, DB interface: ODBC, HTTP servers: IIS, Apache

Designed and, as project leader together with my team, developed Point-of-Presents (POP) system, capable of receiving documents, processing, storing processed data to POP Data Base, compressing and encrypting a document, archiving to the HUB station, transferring to another POP system and delivering it to user. As a result, I perfected the following area of expertise:

- Object Oriented design using UML - Design of a complete truly object oriented system by Rational Rose and System Architect tools (in UML).
- Multi-platform design with full flexibility of the project, mostly based on XML - Creation of classes for UNIX (DEC & Solaris) and Windows NT operating systems, such as System, Message, Signal, Task Manager and other.
- Graphical User Interface - interface between POP system and user created on Windows NT platform by Visual C++. In the second phase, the interface was transferred into HTML format with CGI tools on MS IIS and Apache servers.
- Communication protocols TCP/IP, HTTP were used for complete inter-project communication. Some of those are designed and developed specifically for POP, and some are used to accomplish internet communication through well-known Web Servers (MS IIS an/or Apache) by CGI, Java and a specifically designed client communication package.
- Data Base interface - ODBC and Stored Procedure call - Complete POP system, including Event Log, Configuration parameters and input-output data, are connected with data base (MS SQL or Sybase).

**Applied Analytics Corporation**, Toronto, Ontario

Software Engineer

C, Borland C++ on SUN, OS-9 and Windows 3.11

Worked on POS-AV, self-contained real-time Position and Orientation Systems for motion compensation in an airborne environment.

**OMTRONIX**, Mississauga, Ontario

Software Engineer

Visual C++ on Windows 3.11 and Windows NT

Created a 3-D graphics package for the presentation and manipulation of CNC (Computer Numeric Control) work files (a set of lines which present a route of moving CNC head)

**Royal Bank**, Toronto, Ontario

Software Engineer

C, Vermont Views on OS/2

- Created and maintained a series of routines in order to improve performance of the information system (Branch Productivity Reports)
- Created a communication package for sending the branches' productivity data to the Data Warehouse (LAN and Modem)

**George Kelk Corporation**, Don Mills, Ontario

Software Engineer

C, Assembler for Motorola 68020 on PDOS

Worked on a real-time automatic control system to detect and measure the metal strip during rough or finish rolling

**Institute "Mihajlo Pupin"**, Belgrade, Yugoslavia

Leading Research Engineer / Project Leader

C, Visual C++, Assembler on VRTX, UNIX and DOS

- Created and installed embedded real-time systems to automate the whole electrical power system in Yugoslavia, such as SCADA that was build around an RTU (Remote Terminal Unit, PLC system)

Senior Research Engineer

- Created a software package for automatic process control of an ice cream plant

Research Engineer

- Created a system to control the process in a large leather refinement factory in Russia
- Developed an interface between C routines and VRTX kernel, to create interrupt routines for VRTX tick and VRTX entry point, creating drivers for communication and printing

Senior Development Assistant

- Created a software package for testing the system and tested its performance

Junior Development Assistant

- Created LADDER diagrams operative library for the PLC system

**EDUCATION****Master of Computer and Electronics Science**

University of Belgrade, Serbia

**Faculty of Electrical Engineering,****Department of Computer Science**

Hon. B.Sc. in Electrical Engineering

Major: **Software Engineering**