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## CURRICULUM VITAE

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### *EDUCATION*

- Bachelor in Computer Science 1992  
Sherbrooke University
- College degree in Computer Science 1989  
Cegep Limoilou

### *CERTIFICATIONS*

- CCIE #4691
- CCDP
- CCDA
- CCNP
- CCNA
- Geotrain Netgun Program

### *LANGUAGE*

- French
- English

### *TECHNICAL CARD*

**Technologies:** Ethernet, Serial, Dial-up, ISDN BRI/PRI, Frame-Relay, ATM, POS

**Protocols:** TCP/IP, EIGRP, OSPF, ISIS, BGP, MPLS, MPLS-VPN (MP-BGP),  
MPLS-TE, MPLS-CoS, QoS, Multicast

**PROFESSIONAL EXPERIENCE**

**HYDRO-QUEBEC**

***Architect – IP Network Evolution***

***02/2008 – 12/2015***

***Elaborate solutions and planning for telecom project realisation***

- Management network for the Sonet-NG / DWDM environment, MPLS-VPN
- QoS Architecture Evolution
- Deployment of the MPLS-VPN network
- Equipment & technology certification process
- Structure and define IP network equipment configuration templates
- IP/MPLS network evolution (Cisco/Alcatel)

***Architect – IP/MPLS Network***

***03/2006 – 06/2007***

***Quality of Service (QoS) and Multicast***

- Develop QoS and Multicast architectures for the corporate network based on Cisco routers and switches.
- Prepare and lead work sessions with individuals from architecture, support and specific business application teams.
- Prepare and present QoS and Multicast architecture documents.
- Prepare and present technical sessions on the QoS mechanisms used in proposed architecture.

***Integrated telecommunication network***

- Participate in the redesign of the IP network to integrate the needs of all applications from the corporate domain as well as the utility domain.
- Participate in documentation structure, task identification/dispatch and contents of deliverables.

**VIDEOTRON**

***MPLS training***

***06/2005***

- Give a three days training on MPLS, its bases, its hierarchy and its VPNs.

**HYDRO-QUEBEC - TransÉnergie**

***Main Architect – Electrical IP Network***

***06/2004 – 02/2006***

- Elaborate the architecture and detailed design of the IP network for the telecommunication needs of the electrical plants including:
  - MPLS, MPLS-VPN, MPLS-TE architecture
  - QoS architecture
  - Network management and security architecture
- Organize and lead work sessions with matter experts and clients as needed
- Prepare and present an introduction session on IP, MPLS, VPN technologies
- Prepare and present technology choices, justifications and issues to executives
- Participate in the writing of the Request For Proposals (RFP)

**GOVERNMENT OF QUEBEC - JUSTICE**

*Architecte*

**2003-2004**

***Quality of Service***

- Provide an overview of QoS concepts & technologies
- Assess QoS requirements for SNA, IPX, Voice, Video and other IP traffic
- Elaborate an end-to-end QoS architecture
- Provide detailed designs and configurations
- Provide post-production support documentation

**GOVERNMENT OF QUEBEC - SAQ**

***Network Support***

**2003**

- Troubleshoot network problems
- Recreate problems and test workarounds in laboratory
- Document findings

**TAFISA**

***Network Audit***

**2003**

- Gather current network parameters
- Assess current state of network with regards to
  - Availability / Layer 2-3 Redundancy
  - Stability / Standardization / Upgrade
  - Layer 2-3 Optimization / Hierarchy
- Document findings
- Recommend appropriate actions

**BELL NEXXIA**

***IP-VPNe Integrator - Secure Channel***

**2003**

- Integrate Canada Government dedicated network onto Bell Nexxia's IP-VPNe (MPLS-VPN) platform.
- Prepare migration plans.
- Elaborate and test solutions in laboratory.
- Produce standard typical configurations.

**MICROCELL**

***Main Architect – IP Network***

***IOS Upgrade***

**2002**

- Elaborate acceptance test plan for an IOS upgrade on the network.

***Transmission Network***

**2002**

- Evaluate the relevance of implementing a transmission network underneath the multi-service IP Network.

***Internet***

**2001-2002**

- Elaborate the architecture of the Internet service (MPLS-VPN) and access.
- Elaborate and conduct a series of tests in laboratory to validate and finalize the detailed design.
- Insure and supervise the roll-out of the service.
- Provide post-production support as well as an adequate transfer of knowledge.

***Security*** **2001**

- Contribute to the security architecture of the IP network.
- Supervise roll-out.
- Ensure adequate transfer of knowledge.

***Virtual Private Networks (VPNs)*** **2001**

- Lead a team in the architecture of a large scale VPN service : MPLS-VPN.
- Elaborate detailed VPN design for every services including, network management, corporate network, corporate services like GPRS, WAP, VoIP, etc.
- Elaborate and conduct a series of tests in laboratory to validate and finalize the detailed design.
- Ensure and supervise the roll-out of all services.
- Provide post-production support as well as an adequate transfer of knowledge.

***Multi-Services IP Network*** **2001**

- Lead a team in the architecture and detailed design of a multi-services IP network. The WAN has to allow for growth in high speed technology like Packet Over Sonet. MPLS technologies are used for their multi-services integration (VPN), quality of service (QoS) and traffic-engineering (TE).
- Elaborate and conduct a series of tests in laboratory to validate and finalize the detailed design.
- Roll-out the network in production.
- Provide post-production support as well as an adequate transfer of knowledge.

**VIDÉOTRON**

***Main Architect – MPLS network***

***Third-Party Residential Internet Access (TPRIA)*** **2000**

- Elaborate the architecture and detailed design of an MPLS and MPLS-VPN network to provide residential Internet access to third-party companies, as ruled by the CRTC. The existing ATM and POS infrastructure served as a base.
- Contribute to test plan preparation.
- Conduct tests in laboratory.
- Propose a roll-out plan.

***MPLS teacher*** **2000**

- Dispense custom-made 3-day training on MPLS, its bases, its hierarchy and its VPNs.

**GROUPE TELECOM**

***MPLS Advisor*** **2000**

- Be the expert advisor in network architecture work sessions with regards to MPLS technologies including MPLS-VPN, MPLS-CoS and MPLS-TE.

**SMP**

***MPLS Course*** **2000**

- Develop a course on MPLS, its bases, its hierarchical routing and its VPNs.
- Prepare hands-on exercises to illustrate the concepts.

**QUEBECTEL**

***Architect***

***ISP Network : GlobeTrotter*** **2000**

- Participate in the revamp of the Globe Trotter ISP network.
- Elaborate the architecture of an MPLS network with hierarchical routing.
- Elaborate and conduct tests in laboratory.
- Supervise roll-out.

***Corporate VPN Service Network*** **1999**

- Contribute to the development of the Corporate VPN service.
- Contribute to the architecture of the MPLS, MPLS-VPN network.
- Elaborate and conduct tests in laboratory.
- Contribute to network roll-out and migration of first corporate client.

**BELL CANADA, BELL SYGMA, BELL ADVANCED COMMUNICATIONS, CONNEXIM**

***Internetworking Support*** **1997**

- 3<sup>rd</sup> level support for the routers and switches network, including installation, configuration, upgrade, troubleshooting, design review and testing of new products.
- CISCO ROUTERS 2500s, 3600s, 4000s, 7500s, CATALYST SWITCHES 1900s, 5000s, 5500s, SYNOPTICS TOKENRING, ETHERNET et TERMINAL SERVER HUBS

***Remote Access Support*** **1995**

- Implementation and 3<sup>rd</sup> level support for the Remote Access Solution.
- IBM 8235, USR NETSERVER for DIAL-UP and GANDALF for ISDN

***Network API Support*** **1995**

- Develop and maintain a library of LU6.2 network functions implementing the Kerberos security system in a multi plate-form client / server environment.
- SUNOS, RS/6000, OS/2, VAX, CICS, LU6.2, NETBIOS

***RICIB*** **1994**

- Contribute to the development of a document to gather network data, to assess the existing network and help in designing a new network for the different ministries of the Québec Government.

***Network database developer*** **1992**

- Customize InfoManagement from IBM to provide a better configuration of network data, trouble reports, escalation and integration of network change procedures.

***Coop*** **1989**

- Implementation et presentations on OS/2 Server.
- Development of configuration tools for LU6.2 Communications Manager / XCOM.
- Development and implementation of IBM Token-Ring Bridge Assembler Filter.