

Sonia Ouellet, PE

SUMMARY OF QUALIFICATIONS

Registered State of Florida Professional Engineer with over 20 years of experience designing Microwave and Cellular networks. Official technical trainer on Pathloss 5 Microwave Engineering software in the USA for commercial and industrial microwave networks. Extensive nationwide and international experience as an RF engineer and project manager on both cellular and microwave system design with excellent organizational and database skills; experienced with maintaining procedures and updating technical manuals.

PROFESSIONAL EXPERIENCE

Senior RF Engineer, 4G Unwired (Melbourne, Florida) December 2017 – present

- LTE CBRS Design and Network performance analysis, troubleshooting and problem solving with Atoll (Forsk)
- Spectrum Management and Frequency Planning expert
- Provide LTE design expertise to multiple clients from preliminary design, to implementation, to troubleshooting, optimization and FCC compliance.
- Technical trainer on microwave network design and Pathloss 5 software in the USA

MEI Company (NASA Kennedy Space Center, Florida) February 2016 - November 2017

- Develop, implement and upgrade metrics in VBA using multiple databases to provide a clear status on the progress of on-going requirements and work acceptance documents

Senior RF Consulting Engineer, YRH (Quebec and Florida) August 2008 – January 2016

- Engineering team management for specific customers
- Supervision for preparation of design documents, guidelines and technical reports
- Design of communication systems (cellular / WiMAX / HSPA / LTE / 3G / 4G / CDMA / EVDO / mobile radio / transmission networks)
- Uses, manages and updates databases for the different aspects of the networks

Bell Mobility Cellular (Montreal, Quebec) March 2011 - June 2013 -

- Supervise and coach Associate engineers in completing all tasks in regard to RF design
- Manage engineering transport requests for the Bell Mobility LTE network in Canada

Hydro-Québec (Montreal, Quebec) March 2010 - March 2011

- Prepare WiMAX projects in Mentum Planet simulation tool for Hydro-Quebec's potential telecom network
- Develops business plan to define possibilities of using WiMAX technology in Hydro-Quebec preferred frequency band

Bell Mobility Cellular (Montreal, Quebec) Sept 2008 - March 2010

- Build LTE database from HSPA, CDMA, EVDO in the Mentum Planet simulation tool
- Validate propagation models with drive testing results

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- Team member for the elaboration of the transport architecture plan for the TCP/IP LTE network in Canada
- Design microwave links and provide all relevant documents for material ordering and installation (over 560 links in the L6, U6, 11, 15, 18, 23 GHz bands)
- Administer Industry Canada license applications using databases interfaces (similar to FAA/FCC)

2002 – 2008 BELL CANADA (Montreal, Quebec, Canada)

National Network Operation Center Manager November 06 - August 08

- Manage and support surveillance teams during any major failures on the network
- Informs and updates higher management and relevant groups during major outages
- Creates and publishes daily reports highlighting abnormal conditions, using multiple large databases to correlate the failures to the affected customers

Project manager March 05 - October 05

- Researches, plans, presents, negotiates, implements and manages a reorganization initiative in Toronto for the afterhours customer service departments.

Customer Service Manager May 02 - March 05 and Nov 05 - Nov 06

- Supports employees on service assurance for Bell Canada's major customers' IP and traditional networks after regular business hours (HDSL, ADSL, ATM, Frame relay, MPLS, IP, ISDN, etc.)
- Manages troubles and crisis in a high stress level environment with no supervision. Work jointly with other Telco managers in Canada and with managers from other groups to provide efficient service to our customers with a MTTR of 4 hours

1998- 2002 YVES R. HAMEL ET ASSOCIÉS INC. (YRH) (Montreal, Quebec)

- Sales Engineer, Nortel Networks Transmission department (Montreal, Qc)
- RF Planning Engineer, Telesystem International Wireless (TIW) 1999 – 2000 for Cesky Mobil, Prague, Czech Republic

EDUCATION

2013 Second level diploma Engineering Management, Sherbrooke University, Canada
2005 Project Management Professional (PMP) class with the PMI
2004 Cisco CCNA 1 and 2, McGill University, Canada
1998 Bachelor of Electrical Engineering - Telecom, Sherbrooke University, Canada

Languages: French (5,5,5), English (5,5,5), Spanish (2,2,2)

Engineering Software: Atoll (Forsk), PathLoss (Instructor), Mentum Planet

Professional Membership: Florida Board of Professional Engineers (FBPE since 2015)
Quebec Board of Engineers (OIQ – since 1999)

Awards: NASA Space Flight Awareness Honoree 2017

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