

Angelo D. Pallotta, ing., P.Eng.

2 Ayton Lane,
Kanata, Ontario, Canada
K2K 2H4

Tel: Home: 613-591-0416
Cell: 613-513-8685

e-mail: angelo@pallottaconsulting.com
web: www.pallottaconsulting.com

Born in Montreal the 28th of May 1956

Education:

M.Sc.A	(Master Degree in Applied Sciences)	Electrical Engineering,	École Polytechnique de Montréal, 1984
B.Eng	(Baccalaureate in Engineering)	Electrical Engineering,	École Polytechnique de Montréal, 1980

Pallotta Consulting Inc. Kanata (Ontario) and Montréal (Québec)

December 2015 to present

Consultant, self-employed

Engineering services mainly in the field of Communications, RF Instrumentation. Broadcast transmitters.

Project Management, Customized Training, software development (instrumentation control / testing automation)

Main Projects / Activities:

- Rohde & Schwarz QPS201 Body Scanner *February 2018 to present*
 - Installation, setup, support, maintenance, service (Ottawa area) *December 2018 to present*
 - FCC Certification of Rohde & Schwarz QPS201 Body Scanner *September 2018 to present*
Coordination for certification of R&S QPS201 body scanner with the FCC. Preparation of a technical report in support for the Request for Waiver presented to the FCC.
 - Certification of Rohde & Schwarz QPS201 Body Scanner *February 2018 to July 2018*
Coordinated the certification of the R&S QPS201 Quick Personnel Security Scanner (body scanner) with a local test lab and with Innovation, Science and Economic Development Canada (ISED). Tasks included theoretical field strength calculations and preparation of a report presented to ISED to obtain a Special Authorization (QPS201 did not fall under any ISED's standard and violated the Canadian Table of Frequency Allocations and allowed field strengths).
- Cost estimates and technical assistance *May 2018 to present*
Prepare and provide offers to R&S Canada for project management of various HF, VHF and UHF radio projects.
- ATC Radios Training for Department of National Defence (DND) *October 2017 to March 2018*
Prepared and delivered customized Operation and Maintenance trainings for Rohde & Schwarz Series 4200 Air Traffic Control Radios and Series 4400 Software Defined Radios.
- Subject-Matter Expert for Rohde & Schwarz Canada *July 2017 to August 2017*
Acted as a Subject-Matter Expert (expert witness) on behalf of Rohde & Schwarz Canada in a complaint filed with the Canadian International Trade Tribunal (CITT). Reviewed Tender documents (procurement of Air Traffic Control radios by DND), provided advice and opinion, prepared exhaustive report and appeared at the CITT hearing.
- Project Manager for Rohde & Schwarz Canada *April 2016 to April 2017*
Project: Nav Canada HF Receiver Replacement.
Responsible for the overall project management for the delivery of 68 R&S® EK4100 HF Receivers. Responsible for producing the project management documentation, developing and conducting the acceptance tests, providing the technical training
- Cost estimates and technical assistance *December 2015 to April 2016*
Prepare and provide offer to Rohde & Schwarz Canada for project management of Nav Canada HF Replacement Project. Provided technical assistance to Rohde & Schwarz Canada during meetings and negotiations with Nav Canada.

ROHDE & SCHWARZ (R&S) Canada Inc., Kanata, Ontario, Canada

July 1988 to December 2015

Systems Engineer, Team Leader (Systems Group), Project Manager

Involved in various roles (system design, software development, training, program management) in several projects for Canadian Coast Guard, National Defence and Industry Canada:

- R&S® XK516 / FK516 Airborne HF Transceivers, *May 2015 – November 2015*
Program Management.
Acted mainly as liaison between the parent company (R&S in Germany) and the customer (Honeywell, mainly in USA and Europe).

- R&S® EK4100 HF Receiver for the Canadian Coast Guard, *2011 - 2015*
Program Management.
Documentation: Created the various technical documents (in English and French) required by the CCG.
Training: Developed and provided training for the Operators as well as for Technical personnel (configuration and maintenance of the radios)
- R&S® EK895 HF radios, *2002 - 2006*
Acted as Technical liaison with customer and provided customized Training (Operator's, Maintenance) on various projects for NavCanada and Canadian Coast Guard
- TV and FM Broadcast transmitters, *2002 - 2015*
Project Management: Managed various projects for R&S TV transmitters (analog and digital) as well as FM broadcast transmitters.
Responsible for obtaining Certification from Industry Canada for analog transmitters (supervised testing, prepared Engineering Brief, submitted application, etc)
- EMI Chamber for susceptibility measurements, *2011 - 2013*
Project Management for the construction of an anechoic chamber for the performance of high frequency radiated field immunity tests for the "Centre de recherche industrielle du Québec" (CRIQ).
- Networks of Communications Direction Finding (DF) Systems, *1988 - 1993*
R&S® PA025 DF Project for the supply of two networked VHF/UHF DF systems to Industry Canada;
Networked over modems and telephone lines.
R&S® PA1100 DF Project; Networked over a military radio link
Acted as Systems Engineer and supervised software development.
- Integrated Spectrum Observation Center for spectrum monitoring for Industry Canada, *1993 - 1998*
Project Management and software development.
This project involved ongoing upgrades and modifications to the system developed by R&S Canada systems group.
- Developed (system concept and design, software development, project management) a system for measuring mobile radio coverage. System consisted of an R&S® EB200 receiver, R&S® HE500 omni antenna, GPS receiver and laptop. The user would drive around (any legal speed) while the receiver measured the level over a list of user defined frequencies; received signal level and position would be recorded. Data would be post-processed and displayed on a map using Microsoft Streets & Trips program. (*2003*)
- Developed and provided a Maintenance Training for a custom radio receiver for DND, (*2000*)
- R&S® PA2000 Direction Finding System; Systems Engineer. Also developed and provided Operational and Maintenance training to the French Army. Comprehensive analysis of Probability of Intercept of frequency hopper radios. (*1988 - 1992*)
- Developed computer based direction finding system; developed novel algorithms allowing to statistically correct measured bearings for multipath. (*1992 - 1994*)
- Conceived and developed (software) an RF monitoring system to detect high level emissions in a test lab. System used R&S® PR100 fast scanning monitoring receiver and R&S® OSP RF switch to monitor RF level in various locations in the lab; Once a signal exceeds the threshold, an email notification (detailed information, including screenshot of the scanning receiver) is immediately sent to the responsible persons. (*2014*)

Other Training:

Provided training for various Rohde & Schwarz instruments; Among which:

- Spectrum Analyzer (R&S® FSH, R&S® FSP) (*2002, 2005, 2006*)
- Network Analyzer (R&S® ZVL) (*2008*)
- Microwave Signal Generator (R&S® SMR), Canadian Coast Guard (*2007, 2008*)
- Modulation Analyzer R&S® FMAV (*2009*)
- R&S® TS-EMF isotropic antenna (for Safety Code 6 measurements) (*2008, 2009*)
- EMI Receivers (R&S® ESS, R&S® ESCI) (*2006, 2007*)

Other activities

- Application Engineering for R&S Radio Monitoring and Location products (including Interference Hunting):
 - R&S® PR100 fast scanning (FFT) monitoring receiver
 - R&S® HE300 directional antennas for interference location
 - R&S® DDF007 Mobile Locator for interference signals (portable, vehicle mounted system for efficiently locating interferers)
- Industrial Security and Controlled Goods:
 - Company Security Officer (Industrial Security Program)
 - ACSO 2010-2014, CSO 2014-2015)
 - Designated Official (Controlled Goods Program, 2014-2015)

PARAMAX Electronics Inc., Montreal, Quebec, Canada

August 1984 to July 1988

Systems Engineer for Anti-Submarine Warfare and Electronic Warfare, Canadian Patrol Frigates project.