Curriculum Vitae – Tibault Reveyrand

Personal Information	Tibault Reveyrand Limoges, France www.microwave.fr @reveyrand in www.linkedin.com/in/reveyrand www.youtube.com/c/tibaultreveyrand	
Professional Objective	Improve the efficiency of the microwave and RF designers and structures. I focus on nonlinear devices at circuits level (such as HEMTs transistors) and at system level (HPA, Switches). That purpose requires an original use of an advanced RF instrumentation associated to a strong knowledge in terms of measured devices modeling.	
Skills	Operating systems : DOS, Windows, Unix and Linux.	
	Programming languages : Pascal, 80x86 Assembler, C, C++, TCL/TK, JAVA, HTML, Javascript, PHP, mySQL.	
	Office softwares : LATEX, Microsoft Office, Open Office.	
	Scientific softwares Maple, Matlab, Mathematica, Scilab, Keysight's VEE and ADS, NI Lab- VIEW.	
	Characterization tools : Spectrum analyzers, scopes, AWG, VNA, LSNA, probe stations, high impedance probes. I have developed calibration procedures and automated calibration and measurements processes.	
	System Level Modeling : Amplifiers, modulators and mixers with splines, neural networks or Volterra expansions. Bilateral Modeling by PhD model.	
	Circuit Level Modeling : Linear, nonlinear and electrothermal models of HEMTs.	
	Languages : French, English.	
Certifications	National Instruments Certified LabVIEW Associate Developer (CLAD)	July 2014-July 2016
Awards	 Best Paper Award, European Microwave Week - Galium Arsenide Application Symposium (GAAS), 2002 T. Reveyrand, C. Maziere, J.M. Nébus, R. Quéré, A. Mallet, L. Lapierre, J. Sombrin, "A calibrated time domain envelope measurement system for the behavioral modeling of power amplifiers", European Microwave Week, GAAS 2002, pp. 237-240, Milano, September 2002 Best Student Paper Award, Journées Nationales Micro-ondes (JNM), 2007 O. Jardel, F. De Groote, T. Reveyrand, C. Charbonniaud, J.P. Teyssier, R. Quéré, D. Floriot, "Modélisation du drain-lag dans les modèles électriques grand-signaux de transistors HEMTs AlGaN/GaN", 15eme Journées 	
	Nationales Micro-ondes (JNM), 3C1, Toulouse, Mai 2007.	
	Up to 140 other refrences are available here : http://www.microwave.fr/publications.html	
Professional Organizations	The Institute of Electrical and Electronics Engineers (IEEE) Member of :	2012
	 IEEE MTT-S Technical Program Review Committee (TPRC) for IMS MTT-11 "Microwave Measurements" technical committee ⇒ Vice-Chair "Microwave Theory and Techniques" society "Instrumentation and Measurement" society 	2013-present 2009-present 2017-present 2007-present 2007-2016
	• Judge for IEEE MTT-S Graduate Fellowships	2014-2015
	• Chair for IEEE Denver Section Jt. Chapter, AP03/MTT17	2015-2016
	The European Microwave Association (EuMA)	2009-2015

- Development of a new LSNA module in order to investigate time domain waveforms at internal nodes of MMICs with high impedance probes (HIP) to validate circuits designs and to analyze nonlinear parametric stability
- Large Signal Network Analysis (LSNA) characterizations in time-domain

Researcher IRCOM / University of Limoges

Achievements :

- Development of the RF time-domain envelope measurement setup (hardware and software)
- Development of the calibration procedure of the time-domain envelope measurement setup
- Power amplifiers characterizations : Load-pull, IM3, NPR
- Behavioral modeling of nonlinear devices with memory effects for system level
- Development of a dynamic complex gain model with neural networks

Lecturer University of Limoges

October 1998-September 2002 RF devices, analog/digital communication systems, signal processing, propagation waves...

Postgraduate student IRCOM / University of Limoges February 1998-July 1998 Circuits level simulations of IM3 and NPR in order to optimize the trade-off between linearity and efficiency

Ph.D in High Frequency Devices and Circuits - Electronic and Optoelectronic, April 2002 Education University of Limoges (France)

Measurement Engineer (CNRS) XLIM

Research Associate University of Colorado at Boulder

Achievements :

Employment HISTORY

- LabVIEW software for a "Do-it-yourself" Large-Signal Network Analyzer (LSNA)
- Outphasing PA characterizations

Lecturer University of Colorado, Boulder ECEN 5014-003, "Microwave Measurements and Calibration Fundamentals"

Measurement Engineer (CNRS) XLIM

Achievements :

- GaN HEMTs circuits level modeling from european foundries (Thales / QinetiQ) for HPA, LNA and Switches
- Time domain measurement setup (LSNA) development on Scilab-TCL/TK (GUI, calibration and measurement automation)
- Development of HEMTs modeling tools (Scilab)
- Contractual measurements such as load-pull, linearity, high impedance probe in both frequency (VNA) and time domain (LSNA)

Research Associate - Visiting Scholar University of Colorado at Boulder February 2012-July 2012 GaN HEMTs based rectifiers characterizations and analysis

Research Engineer (CNRS) XLIM

Achievements :

- Frequency domain load-pull measurement setup (VNA in receiver mode with pulse capabilities) development with Scilab (calibration procedures, measurement automation, data processing)
- Large signal characterization of transistor (mainly European GaN in the framework of Korrigan
- European Project workpackage leader (Korrigan WP3.3). Development of an internet database (Php / mySQL) to let partners share data and informations
- GaN HEMTs "spice-like" nonlinear models

Research Engineer NMDG Engineering byba November 2004-February 2005 High Impedance Probe module (calibration and measurements) in the commercial LSNA Software (based on Mathematica)

- **Postdoctoral scientist** CNES (French Space Agency) October 2003-September 2004 Development of characterization tools interfaces within the free open-source scientific package Scilab
 - Large Signal Network Analysis (LSNA) characterizations in time-domain

December 2007-May 2013

January 2016-May 2016

February 2017-March 2017

June 2013-May 2016

May 2005-November 2007

October 1998-September 2002