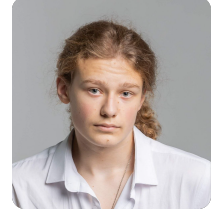


# GRISHIN ANTON — JUNIOR DEVELOPER

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## PERSONAL INFORMATION

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## ABOUT ME

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 :** Unix, Linux and Windows  
**Programming languages :** Python, Go, JavaScript, WebTech (HTML, CSS).  
**Office softwares :** Latex, Microsoft Office, Libree Office.  
**Scientific softwares :** Comsys, Maple, Matlab, Mathematica, Scilab, Keysight's VEE and ADS, NI LabVIEW.  
**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.

## EDUCATION

Central University - Mathematics and Computer Science, 2028

## CERTIFICATIONS

**National Instruments** Certified LabVIEW Associate Developer (CLAD)      *July 2014-July 2016*

## AWARDS

- **Best Paper Award**, European Microwave Week - Gallium 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-signal de transistors HEMTs AlGaIn/GaN", 15eme Journées Nationales Micro-ondes (JNM), 3C1, Toulouse, Mai 2007.*

Up to 130 other references are available here :  
<http://www.microwave.fr/publications.html>

## INTERESTINGS

**Philosophy** Unix, Linux and Windows  
**Books :** Unix, Linux and Windows

**Lecturer** University of Colorado, Boulder*January 2016-May 2016*

ECEN 5014-003, "Microwave Measurements and Calibration Fundamentals"

**Research Associate** University of Colorado at Boulder*June 2013-May 2016*

Achievements :

- LabVIEW software for a "Do-it-yourself" Large-Signal Network Analyzer (LSNA)
- Time domain measurement setup in Scilab (VTD-SWAP)
- Outphasing PA characterizations
- Load-pull in time-domain

**Measurement Engineer (CNRS) XLIM***December 2007-May 2013*

Achievements :

- Korrigan European Project activities (RTP N°102.052 funded within the EUROPA framework in the CEPA2 priority area - ends early 2009) : 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***May 2005-November 2007*

Achievements :

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

**Research Engineer** NMDG Engineering bvba*November 2004-February 2005*

Implementation of the 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

**Postdoctoral scientist** CNES (French Space Agency)*October 2002-September 2003*

Achievements :

- Large Signal Network Analysis (LSNA) characterizations in time-domain
- 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*October 1998-September 2002*

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