

## CURRICULUM VITAE

NAME: Guillermo  
LAST NAME: Rafael-Valdivia

### ACADEMIC DEGREES

**Ph. D. in Telecommunications Engineering.**

Communications Eng. Dpt. University of Cantabria. Spain. 2004

**M.Sc. in Telecommunications Engineering**

Communications Eng. Dpt. University of Cantabria. Spain. 2004

**M.Sc.in Industrial Engineering**

Universidad Federal de Santa Catarina (Brazil)-Saint Augustin National University. 1999.

**BSc. Electronic Engineer**

Saint Augustin National University. 1997. Arequipa. Perú.

### WORK EXPERIENCE

**Professor of Networking and Data Communications in the Software Engineering Program in La Salle University in Arequipa, Perú.**

Research in the fields of Networking, data communications and wireless communications. Published papers : IEEE IMS2014, IMS2015, APMC2015, EUMC2016 and IEEE LAMC

**RFIC Design Engineer. Freescale Semiconductor. Toulouse France.**

Development of RF power transistors dedicated to wireless data communications networks. Designs covers wide range power levels: 25W to 260W and large frequency spectrum : 900MHz – 3800MHz with Doherty applications and development of nonlinear models in ADS. April 2007- December 2009

**Postdoctoral Researcher: Department of Electrical, Electronic and Mechanical Engineering. University College Dublin.Ireland.**

Non linear modeling of GaN and GaAs devices for wireless data communications networks by using pulsed measurements and RF power characterization. June-2005-March 2007.

**Postdoctoral Researcher. Telecommunicationseng. Dpt. University of Cantabria. Spain.**

Non linear models and pulsed characterization of GaAs and GaN devices with special emphasize of electron mobility measurements. May 2004 – May 2005.

**RF Application Engineer. “TECXXI Enterprise”.**

Implementation of microwave radio links. Santander, Cantabria, España. 2002-2003

## FIELDS OF RESEARCH

Networking and data communications. Wireless communications. Operative Systems for wireless networks. RF Power amplifier design, Research on Doherty amplifiers for 5G applications, non linear modelling and characterization techniques for GaAs, GaN, and LDMOS devices. Modeling of short, medium and long term memory Effects in GaAs and GaN microwave transistors. Microstrip RF circuit design. RF test/evaluation of filters and couplers. Research on Antennas design for IoT applications. EM simulation and characterization.

## MAIN PAPERS AND CONFERENCES

- IEEE International Microwave Symposium: IMS 2014, IMS 2015, EUMC2016. Oral presentations.
- “Two-Stage LDMOS RFIC Drives WiMAX” Microwaves &RF Journal. Oct. 2008
- IEEE International Microwave Conference: IMS2006 and IMS 2007: Long-papers.
- IEEE Transactions on Electron Devices, Vol. 51, No. 1, Published paper. January 2004
- IEE Electronics Letters, Published paper. Vol. 40, No. 11, 27th May 2004.

\*Complete list of publications (more than 50 papers, journals and books) can be presented upon request.

## LANGUAGES

**English, French, Spanish:** Fluent

## HARDWARE AND SOFTWARE TOOLS

**Software Simulators:** ADS, AWR Microwave Office, HFSS, Matlab.

**Hardware for RF Measurements:** Network Analyzers, Spectrum Analyzers, RF Generators, RF instrumentation, Pulsed Load Pull bench.

## OTHERS

IEEE Senior Member: Microwaves Theory and Techniques Society. Antennas and Propagation Society.Nr. 80435319

Chair of the IEEE MTT (Microwaves Theory and Techniques) Peruvian Chapter since 2014 until now.