José Antonio Saavedra N. (PhD)
Electronics Engineer

PERSONAL INFORMATION

Last Name	: SAAVEDRA NAVARRETE
First Name	: José Antonio
Date of birth	: 30 April 1972
Nationality	: Chilean
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EDUCATION

2018	**IEEE ComSoc Training course (Webex)**
	Wireless for the Internet of Things (4Hours)
	Beyond LTE: LTE Advanced, LTE Advanced PRO AND 5G (6 Hours)
2016 - 2017	**CISCO CCNA Training course** – CISCO Networking Academy – Universidad Católica de la Santisima Concepción. Chile. 1) Connecting Networks – 2) Introduction to Networks – 3) Routing and Switching Essentials – 4) Scaling Networks
2007 - 2012	**PhD degree** - Université Paris-Sud 11, SUPÉLEC.
	Topic: Multicast and Broadcast in Wireless OFDM systems.
	Laboratoire des Signaux et Systèmes (L2S). Gif-Sur-Yvette. France.
2006 - 2007	**Master degree- Networks and Telecommunications** - Université Paris-Sud.
	Topic: Soft-decoding of H.264/SVC stream.
	Laboratoire des Signaux et Systèmes – SUPELEC. France
2004	**Diploma on Internetworking**, Universidad de Chile, Chile.
1995 – 2003	**Electronics Engineer** and **Bachelor of Science in Engineering (2000)**, Universidad de Concepción, Chile.

ACADEMIC EXPERIENCE

Universidad Católica de la Santísima Concepción (UCSC) – Concepción - Chile

October 2012 August 2018	Professor, Faculty of Engineering.
	Teaching Activities:

2018
1st. Semester: Introduction to Industrial Communications, Signal Processing, Principles of Digital communications.

2017
1st. Semester: Wireless Networks, Signal Processing, Signals and Systems.

2nd. Semester: Fundamentals of Communications Systems, Introduction to Industrial Communications.

2016
1st. Semester: Introduction to Industrial Communications, Signal Processing, Signals and Systems.
2nd. Semester: Fundamentals of Communications Systems, Electric Circuits.

2015
1st. Semester: Signals and Systems, Signal Processing.
2nd. Semester: Fundamentals of Communications Systems, Electric Circuits.

2014
1st. Semester: Electronics, Signals and Systems.
2nd. Semester: Industrial Electronics, Electric Circuits.

2013
1st. Semester: Electric Circuits, Introduction to Electrical Engineering.
2nd. Semester: Electric Circuits, Industrial Electronics.

PROFESSIONAL EXPERIENCE

2012-2018	**UCSC** – Auxiliar professor, Electrical Engineering.
2017-2018	**UCSC**– Research Project**:** OFDM Realistic coverage Models Based on Stochastic Geometry. Results: IEEE-ACCA2018 Conference, Concepción, Chile.

2013-2015 **UCSC** – Head of Electrical Engineering Formation. Administrative activities :

- Academic planning of Electrical Engineer Formation.
- Planning and investment management of training laboratories.
- Recruitment of academic staff.
- Implementation of CISCO Networking Academy.
- Academic planning of "Diploma in Industrial Communications".

2013 **UCSC** – Member of the management team: "Ingeniería 2030 – Universidades Católicas del Sur"

Direct collaboration on the writing of the national project: "Ingeniería 2030 – INNOVACHILE-CORFO". Teams work coordination.

2005-2006 **VTR GlobalCom - Chile (Liberty Global Inc.):** ToIP and NGN Project engineer. Main tasks:

- Company ToIP system implementation, over "Nortel Softswitch Communication Server 2000 over Packet Cable Networks" solution.
- ToIP Senior support engineer.
- Network maintenance management with international suppliers.
- Implementation management of "Nortel VoIP solution based on SIP".

2004 **Zenith S.A. (Bucher-Vaslin holding)** Santiago, Chile.

Technical service and after sales manager.

Repositioning of the brand and installation of after sales service.

2003 Final Project as student engineer at **ENTEL S.A. (Empresa Nacional de Telecomunicaciones)**
Final Report: Telephone services and internet access project in rural schools based in WLL-IP technology over Concepcion and Arauco provinces.

2002 Project engineer - Internship at **ENTEL S.A (Empresa Nacional de Telecomunicaciones)**

WLL-IP site coverage checking (software and on-site). All sites of 3rd, 5th, 8th and 9th regions of the country, before the inspection of the Ministry of Transports and Telecommunications.

WLL-IP coverage area calculations for southern Peru network (Software).

PUBLICATIONS

CONFERENCES

"Coverage estimation of multicast OFDM systems based on stochastic geometry", Saavedra, J. Flores, C. Busson A. and Duhamel, P. IEEE International Conference on Automation, ACCA2018.

"Multicast or Broadcast in multiuser OFDM systems", Saavedra, J. and Duhamel, P., International Conference on Wireless Communications & Signal Processing, WCSP2011.

BOOK CHAPTERS

Check and Review of "Protocol Layers" chapter of: "Joint Source-Channel Decoding. A Cross-Layer Perspective with Applications in Video Broadcasting over Mobile and Wireless Networks", Duhamel, P. and Kieffer, M., 2009, Dec., ISBN-13: 978-0-12-374449-4, 334 pages, EURASIP and Academic Press Series in Signal and Image Processing, Elsevier.

LANGUAGES

Spanish: Mother tongue
French: Mother tongue
English: Scientific

PROFESSIONAL SKILLS

Office softwares: MS-Word, MS-EXCEL, MS-Powerpoint, Visio, LaTex, Beamer
Programming languages: C/C++, Pascal, Python, Matlab, MAPLE, Assembly.
Simulation softwares: Matlab, Pspice-ORCAD, PredicPlan, NS-2, OMNET++, CISCO Packet tracer.
Networks and Telecommunications: SS7, SIP, DOCSIS, SDH, LAN, WAN, WiLAN.

HOBBIES

− Music: Electric guitar.
− Sports: Trail running, Snowboard

REFERENCES

- PhD Advisor: Pierre Duhamel, L2S-CENTRALESUPELEC 3, Rue Joliot-Curie 91192 Gif sur Yvette France, Phone: +33169851716/1712. eMail: Pierre.Duhamel@l2s.centralesupelec.fr
- Senior researcher: Ana Narvaez, Universidad Catolica de la Santísima Concepción, Alonso de Ribera 2850, Concepción, Chile Teléfono: +56412345314/5329 eMail: anarvaez@ucsc.cl
- Senior researcher: Raul de Lacerda, Maître de conférences, CentraleSupelec, Phone: +33169851549. e-Mail: Raul.DELACERDA@l2s.centralesupelec.fr