

Leovigildo Sánchez Casado

Curriculum Vitae – March 2017

PROFESSIONAL EXPERIENCE

Nov 2016 - Integration engineer, NEXTHINK, Madrid.

Present day Integration of the *Nexthink* software with different tools, as *ServiceNow*, *Splunk*, *ArcSight* or *SCCM*, providing metrics and real time information about the activity of the endpoints (*end-user analytics*), following agile methodologies (*SCRUM*) and applying Test Driven Development (TDD).

Jan 2015 - **Software developer**, UNIT4 R&D SPAIN, Granada.

Oct 2016 Integration of products developed in different technologies (VB6, C++, C#) under .NET framework and development of new features. Work as member of a multifunctional team, following agile methodologies (SCRUM) and applying Test Driven Development (TDD).

Oct 2010 - Researcher, UNIV. OF GRANADA, Granada.

Oct 2014 Research focused on network security and intrusion detection and response, principally in *ad hoc* networks. Development of intrusion detection systems using network simulators and Python. Development of NETA (*NETwork Attacks*), an open-source simulation framework based on the OMNeT++ tool. Author of some journal papers, two book chapters and several publications in national and international conferences.

Nov 2013 – **Research stay in the** *Distributed Systems Lab*, UNIV. OF OSNABRÜCK, Osnabrück Feb 2014 (Germany).

Development of attack detection systems in MANETs under the supervision of Dr. Nils Aschenbruck.

Jun 2007 – Initiation to Research Grant, UNIV. OF GRANADA, Granada.

May 2008 Research focused on the area of network security, specifically in automatic signature generation for Intrusion Detection Systems (IDS).

TEACHING EXPERIENCE

Oct 2010 - Assistant lecturer, UNIV. OF GRANADA, Granada.

Oct 2014 Teaching at the Dept. of Signal Theory, Telematics and Communications (*Telematics* area):

- Degree in Telecommunication Technology Eng.:
 - Infrastructure and Communication Networks
 - Telematic Systems
- Telecommunications Eng.:
 - Computer Networks
- Co-advisor of several Degree Theses

EDUCATION

Oct 2010 - **Doctor of Philosophy**, *Univ. of Granada*, Granada, *Summa Cum Laude*.

Oct 2014 Ph.D. Thesis

Anomaly-based Multi-layer Intrusion Detection for MANET Environments. Advisors: D. Pedro García Teodoro and D. Gabriel Maciá Fernández. Summa Cum Laude

Oct 2009 - 1-year M.Sc. in Multimedia Technologies, Univ. of Granada, Granada, 9.39/10.

Sep 2010 Master Thesis

Study of the Performance of Multimedia Services Delivery in IP Mobile Environments. Advisor: D. Pedro García Teodoro. 9/10

Oct 2008 - 5-year B.Sc. in Electrical Eng., Univ. of Granada, Granada, 7.18/10.

Jun 2009 Last year and master thesis at the *Université Catholique de Lille, Institut Supérieur d'Electronique et du Numérique (Lille, France)*, through the Erasmus Program.

Master Thesis

Chargeur de Batterie de Vélo Électrique. Advisor: D. Jean-Marc Capron. 9/10

Oct 2003 - 5-year B.Sc. in Telecommunication Eng., Univ. of Granada, Granada, 7.71/10.

Sep 2008 Master Thesis

Automatic Signature Generation in h-NIDS using Stochastic Analysis and Selective Contents Labeling. Advisor: D. Pedro García Teodoro. 10/10

COMPETITIVE GRANTS

Oct 2010 - University Professor Training Program (FPU), MINISTRY OF EDUCATION,

Oct 2014 Culture, and Sports.

Sep 2008 - Erasmus Grant, MINISTRY OF EDUCATION, CULTURE, AND SPORTS / GOVERNMENT

Jul 2009 of Andalucía / Univ. of Granada.

Université Catholique de Lille, Institut Supérieur d'Electronique et du Numérique, Lille, France

Jun 2007 - Initiation to Research Grant, UNIV. OF GRANADA.

May 2008

LANGUAGES

Spanish Native

English High

FCE/B2 with Grade A (C1 equivalent)

French Intermediate

A2-B1

Computer Skills

Basic HTML/CSS, Assembler, VHDL, AutoCad

Intermediate JAVASCRIPT, JAVA, BASH, Test Driven Development (TDD), version control systems, Inkscape, Cisco equipment configuration (CCNA-1, CCNA-2), protocols and communication technologies (IEEE 802 family, IP, TCP, HTTP, FTP, DNS, SMTP, ...)

Advanced Microsoft Office package (Word, Excel, PowerPoint), SQL, MATLAB, C, C++, C#, .NET, PYTHON, LATEX, SO's (UNIX, Windows), network simulators (NS-2, OMNeT++), wireless ad hoc networks, cryptographic and security techniques

Talks (selected)

- Jun 2014 Int. Conf. on AD-HOC Networks and Wireless (ADHOC-NOW), held in Benidorm, Spain
- Sep 2012 XII Reunión Española sobre Criptología y Seguridad de la Información (RECSI), held in San Sebastián, Spain
- Jun 2012 11th IEEE Int. Conf. on Trust, Security and Privacy in Computing and Communications (TrustCom), held in Liverpool, United Kingdom

Publications (selected)

- Jun. 2016 A. Ruiz-Heras, P. García-Teodoro and L. Sánchez-Casado. ADroid: anomaly-based detection of malicious events in Android platforms. Int. Journal of Information Security (Springer), DOI: 10.1007/s10207-016-0333-1
- Oct. 2015 R.A. Rodríguez-Gómez, G. Maciá-Fernández, L. Sánchez-Casado and P. García-Teodoro. Analysis and Modeling of Resources Shared in the BitTorrent Network. Trans. on Emerging Telecommunications Technologies (Wiley), DOI: 10.1002/ett.2859
- Aug. 2015 L. Sánchez-Casado, G. Maciá-Fernández, P. García-Teodoro and N. Aschenbruck. Identification of Contamination Zones for Sinkhole Detection in MANETs. Journal of Network and Computer Applications (Elsevier), DOI: 10.1016/j.jnca.2015.04.008
- Jul. 2015 L. Sánchez-Casado, G. Maciá-Fernández and P. García-Teodoro. Data Forwarding in MANETs for Lightweight Detection of Malicious Packet Dropping. Computer Networks (Elsevier), DOI: 10.1016/j.comnet.2015.05.012

OTHER SKILLS

- Organization Organizer of several Rubik's Cube competitions, highlighting the Spanish Championships and 2012 and 2015, both held in the city of Granada.
- management Secretary of the Spanish Association of Rubik's Cube (AECR, Asociación Española del Cubo de Rubik).

Former National Delegate for the World Cube Association (WCA).

Social Good team worker with good interpersonal skills (captain of an associated football team for years).

Adaptability to different multicultural environments (foreign stays, Erasmus grant, participation in international competitions).

Commitment, effort and dedication.

Driving B license

Interests

- Twisty puzzles (Rubik's style)

- Reading

- Photography

- Cinema

- Team sports