

PERSONAL INFORMATION

Luis GÓMEZ MIRALLES

 Valencia

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Date of birth 1979 | Nationality Spanish

PREFERRED JOB

IT Security, Digital Forensics, Incident Response

WORK EXPERIENCE

12/2012–Present

ICT Security Technician

United Nations Office for Project Services - U. N. Support Base, Valencia (Spain)
<http://www.unops.org>

Provide security assistance to technical teams operating infrastructure and security-specific controls.
Perform web application security assessments.
Assist in security incident investigations and perform technical forensic analysis.
Evaluate bug reports and other IT security sources and make relevant recommendations.
Deploy a security laboratory to conduct malware analysis.
Participate in ISO 27001 training and awareness campaigns.
Create and maintain up-to-date security documentation and related information assets.

04/2017–09/2018

College / university teaching professional

Universidad Internacional de La Rioja
<http://www.unir.net>

Responsible for the track Forensic analysis of desktop computers as part of the Expert course on digital forensics across three editions of the training.
Director of Masters' Thesis in the Master in Computer Security for three semesters.

09/2005–12/2012

Engineer - Computer Forensics

Investigación Digital, S.L. (INCIDE), Barcelona (Spain)
<http://www.incide.es>

Forensic analysis: Examine computers, smartphones and other devices, in cases of corporate espionage, sabotage, information leaks, blackmailing, fraud, etc.
Litigation support: Write reports and defend them before Court as expert witness. Legal assessment.
Design and setup the Forensics Lab hardware and software (Linux servers, VMware virtualization, storage management).
Write the operational procedures of the Forensics Lab and train new technicians.
Digital intelligence: e-mail header analysis; studies of social network profiles; structural analysis of networks and websites; searches for online information about individuals and companies.

09/2003–08/2005

Senior consultant, Incident Response Team

InetSecur / TB-Security, Barcelona (Spain)
<http://www.tb-security.com>

Handle security incidents at the Universitat Politècnica de Catalunya network,
Member of esCERT-UPC, Computer Emergency Response Team handling security incidents at the Universitat Politècnica de Catalunya (public class B network, thousands of systems).

Perform forensics analysis of attacked systems.
 Write periodic security bulletins within the framework of EU EISPP programme (European Information Security Promotion Programme).
 Provide security awareness training to network administrators.
 Provide assistance in the design and implementation of secure network architectures.

07/2001–07/2003 Self-employed
 Servicios de Protección y Recuperación de Datos, S.L. - InfoEmergencias (my own company)
 Perform logical-level data recovery.
 Integrate Windows and Linux services for small companies.

EDUCATION AND TRAINING

2011–2016 Ph.D. Network and Information Technologies EQF level 8
 Universitat Oberta de Catalunya, Barcelona (Spain)
 Doctoral thesis: Forensic imaging and analysis of Apple iOS devices.

10/2007–01/2009 University Master's Degree Programme in Free Software EQF level 7
 Universitat Oberta de Catalunya, Barcelona (Spain)
 Administration of Linux systems; Case studies of large-scale Linux deployment; Integration of Linux and Windows systems and services; Network and computer security; Legal aspects about free software.

10/2000–07/2001 Diploma de especialista en diseño e interconexión de redes LAN y MAN (Diplomma of Specialist in LAN and MAN network design and interconnection)
 Universidad de Valencia, Valencia (Spain)
 Networks: OSI model, IPv4, Ethernet. Routing: RIP, EIGRP, OSPF. WAN access: PPP, Frame Relay. Administration of Cisco routers and switches.

09/1997–07/2000 Ingeniero Técnico en Informática de Sistemas (Bachelor in Computer Science) EQF level 6
 Universidad Antonio de Nebrija, Madrid (Spain)
 Data structures and algorithms; Statistics; Mathematics; Design of digital systems; Computer architecture; Formal languages.

PERSONAL SKILLS

Mother tongue(s) Spanish / Castilian, Catalan / Valencian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
University of Cambridge Certificate in Advanced English (CAE) C1 (1996) United Nations Language Proficiency Examination (2013)					
French	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Job-related skills	Experience controlling equipment for technical surveillance countermeasures: RF spectrum analyzers, thermal cammeras, semiconductor detectors, phone line analyzers.
Digital skills	Experience with different security solutions including Check Point, Stonegate, Cisco. Experienced network administrator under Linux (Apache, MySQL, BIND, Samba, Postfix...). Perl and Bash Scripting. Regular expressions. Basic C, C++ and Java programming. Ability to switch quickly to other languages. Proficient command of Mac, Linux and Windows operating systems.
Other skills	Frequent contributor to several open source software projects such as The Sleuthkit forensics software, as well as translations of those projects. Developer and contributor of the open source Revealer Toolkit framework for forensics analysis.
Driving licence	B

ADDITIONAL INFORMATION

Certifications	PRINCE2 Foundation. ITIL (2011) Foundation.
Citations	IMIS-2011 Best Paper Award. The Fifth International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS). Seoul, Korea, 2011. For: Gómez-Miralles & Arnedo-Moreno, Universal, fast method for iPad forensic imaging via USB adapter.
Additional Training	<i>(only recent and relevant)</i> <ul style="list-style-type: none">■ Check Point Security Engineering and Check Point Security Administration. Check Point Software Technologies, Inc. (2014).■ Advanced Services Implementing Cisco Identity Services Engine Secure Solutions (ISE). Cisco authorized training (2014).■ Citrix NetScaler 10 Essentials and Networking (CNS-205). Citrix Education (2013).
Publications	Book chapters: <ul style="list-style-type: none">■ Gómez-Miralles, Arnedo-Moreno. Hardening iOS devices against remote forensic investigation. In: <u>Security and resilience in intelligent data-centric systems and communication networks</u>. Academic Press, 2017. DOI: 10.1016/B978-0-12-811373-8.00012-4. Journal papers: <ul style="list-style-type: none">■ Gómez-Miralles, Arnedo-Moreno. AirPrint Forensics: Recovering the contents and metadata of printed documents from iOS devices. Mobile Information Systems, Volume 2015, Article ID 916262, 10 pages, 2015. DOI: 10.1155/2015/916262.■ Gómez-Miralles, Arnedo-Moreno. Versatile iPad forensic acquisition using the Apple Camera Connection Kit. Computers And Mathematics With Applications, Volume 63, Issue 2, 2012, pp.544-553. DOI: 10.1016/J.CAMWA.2011.09.053. Conference papers: <ul style="list-style-type: none">■ Gómez-Miralles, Arnedo-Moreno. Lockup: a software tool to harden iOS by disabling default Lockdown services. Proceedings of the 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC), 2015, pp. 718-723. DOI: 10.1109/3PGCIC.2015.57.■ Gómez-Miralles, Arnedo-Moreno. Analysis of the forensic traces left by AirPrint in Apple iOS devices. Proceedings of the 27th International Conference on Advanced Information Networking and Applications Workshops (WAINA), 2013, pp. 703-708. DOI: 10.1109/WAINA.2013.40.■ Gómez-Miralles, Arnedo-Moreno. Universal, fast method for iPad forensics imaging via USB adapter. Proceedings of the Fifth International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS), 2011, pp. 200-207. DOI: 10.1109/IMIS.2011.41.

Other contributions:

- Poster: **Hardening iOS by selectively disabling lockdown services.** Digital Forensics Research Conference Europe (DFRWS EU). Dublin (Ireland), 2015
- Conference paper: Gómez-Miralles. **La planificación en la respuesta a incidentes** (*Planning for incident response*). Libro de Ponencias de Mundo Internet 2005 (X Congreso de Internet, Telecomunicaciones y Sociedad de la Información), I, pp. 644-648. Madrid (Spain), 2005. Dep. legal M-14863-2005.
- Lecture: Gómez-Miralles. **Planning post-mortem analysis of compromised systems.** Internet Global Congress 6, Barcelona (Spain), 2004.
- Workshop taught: Gómez-Miralles. **Técnicas forenses en seguridad informática** (*Forensic technologies in computer security*). Jornadas Técnicas de Seguridad Informática CriptoRed. Salamanca (Spain), 2004.
- Lecture: Gómez-Miralles. **Análisis forense: nuevas tendencias en adquisición de datos; validez de la evidencia digital** (*Forensic analysis: new trends in data acquisition; soundness of digital evidence*). NoConName. Palma de Mallorca (Spain), 2004.