



# toni castillo girona

## Education

- July 2017 **MSc in Systems Information Security**, *UOC, UAB, UrV*, Catalunya, Spain.
- August 2015 **Usable Security**, *University of Maryland*, Maryland, Passed with Distinction.  
<https://www.coursera.org/account/accomplishments/verify/YRQNZS5XWW>
- March 2015 **Hardware Security**, *University of Maryland*, Maryland, Passed with Distinction.  
<https://www.coursera.org/account/accomplishments/certificate/3Z56RX4T9A>
- December 2014 **Software Security**, *University of Maryland*, Maryland, Passed with Distinction.  
<https://www.coursera.org/account/accomplishments/certificate/KL692M2J37>
- July 2013 **Certificate in Advanced English, CEFR C1, University of Cambridge: ESOL Exam taken at Universitat de Barcelona**, Barcelona, Candidate Id: **OSG689468**.  
Cambridge Verification Results: <http://verification.cambridgeesolonline.org/>
- 2013 **Advanced English II, EIM: Escola d'Idiomes Moderns, Universitat de Barcelona**, Barcelona, **MECR C1.2**.
- 2012 **Bachelor's degree in Computer Management**, *Universitat Oberta de Catalunya*, Barcelona.
- 2000 **Authorized Prometric Testing Center Administrator APTC**, *Prometric*, Barcelona.
- 1999 **Microsoft Certified Professional Systems Engineer**, *Prometric*, Madrid, Leganés..
- 1999 **Microsoft Certified Trainer**, *Winmat*, Barcelona.

## Experience

- November 2016-Present **Freelance writer**, *Future plc*.  
Freelance writer for the magazine **Linux User & Developer**, writing about GNU/Linux, Software Security and debugging.
- June 2015–November 2016 **Freelance writer**, *Imagine Publishing*.  
Freelance writer for the magazine **Linux User & Developer**, writing about GNU/Linux, Software Security and debugging.
- 2004–Present **Systems Manager**, *Applied Physics Department, Universitat Politècnica de Catalunya*, Barcelona.  
I am in charge of fixing all GNU/Linux software related issues. Bugs.
- 2015 **Coursera Comunity TA on Maryland University Course: Software Security**, *Coursera*.  
Support student learning by clarifying points, explaining concepts, and addressing misunderstandings on the forums.
- 23 May 2011 - 3 June 2011 **ICT Visitor Expert**, *Astronomical Institute Utrecht*, Utrecht, The Netherlands..  
Two weeks-stay at the Astronomical Institute Utrecht, working as an ICT expert with Dr. S. J. Hegoveen. ICT support on their cluster. ICT generic support. Survey: The ways of ICT technical support on Scientific Environments at the Utrecht University. Survey: Web-Polling mechanisms for Computers and Smartphones. ZokiePoll code-changes and some online demos for the Web-polling survey.
- Grant: UPC Barcelona TECH, 2011**
- 2009-2011 **Remote IT support**, *Australian Research Council*, Australia.  
Remote IT support for a participant of: Super-AGB stars: The missing link? (ARC Discovery Project, DP0807317 financed by the Australian Research Council (2009-2011)).
- 2001–2004 **Systems Manager**, *UNIFF, Universitat Politècnica de Catalunya*, Barcelona.  
I was in charge of administering FreeBSD servers - MTAs, routers, DHCPD, http, etc -. I was the main developer working on ICON4, a terminal-based management application developed using Informix, 4GL and C languages.

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**Blog:** <http://disbauxes.upc.es/author/tonicas/>  
<http://es.linkedin.com/in/tonicas>

- 2003-2003 **Teacher**, *Logic Control*, Barcelona.  
Course: Administering FreeBSD.
- 2002-2002 **Teacher**, *Cambra de Comerç de Barcelona*, Barcelona.  
Course: "Web sites management"
- 2001-2001 **Teacher**, *UNIFF, Universitat Politècnica de Catalunya*, Barcelona.  
Course: "Introduction to GNU/Linux."
- 2001-2001 **Developer**, *Barcelona Centre de Tecnologies (BCT)*, Barcelona.  
Design and implementation of "IAGO", a course-management tool for "Departament de Formació i Projectes".
- 2000-2000 **Teacher**, *Barcelona Centre de Tecnologies (BCT)*, Barcelona.  
Course: Administering UNIX operating systems and derivatives
- 1998-2001 **Systems Manager**, *Fons Formació*, Barcelona.  
I was in charge of administering all our MTAs, solving all technical desktop issues. I was the main developer for "portal2000", a global management application using the web as a frontend, for course-management purposes.

## Languages

Spanish	<b>Fluent</b>	<i>Native or bilingual proficiency.</i>
Catalan	<b>Fluent</b>	<i>Native or bilingual proficiency.</i>
English	<b>Fluent</b>	<i>Full professional proficiency, Certificate in Advanced English C1</i>

## Computer skills

Programming languages	C, C++, Java, JavaScript, bash-scripting, PHP, assembler IA32, HTML
Debugging	gdb, valgrind, strace, ltrace
OS	GNU/Linux, FreeBSD
Networks & Sysadmin	Apache, DHCPD, routers, MTAs

## Articles & Talks

- June 2017 **Linux User & Developer #180. Future plc.**  
Using Angr to exploit, analyse and instrument binaries
- June 2017 **Linux User & Developer #179. Future plc.**  
IoT exploits: The White Hat's guide to the Internet Of Things
- February 2017 **Linux User & Developer #175. Future plc.**  
Find and exploit CMS vulnerabilities
- January 2017 **Linux User & Developer #174. Future plc.**  
Analyse, adjust and run exploits in a controlled environment
- December 2016 **Linux User & Developer #173. Future plc.**  
Defend Systems against hackers
- November 2016 **Linux User & Developer #172. Imagine Publishing.**  
How to use OSINT techniques to protect your servers  
<http://tinyurl.com/gqvvg5a>
- September 2016 **Linux User & Developer #170. Imagine Publishing.**  
Leverage Censys to find well-known vulnerabilities in your servers.  
<http://tinyurl.com/jf73wm9>
- July 2016 **Linux User & Developer #168. Imagine Publishing.**  
Compile software using modern protections.  
<http://tinyurl.com/jf73wm9>
- July 2016 **Linux User & Developer #167. Imagine Publishing.**  
Compile new software on old distros  
<http://tinyurl.com/hk6cn4p>

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<http://es.linkedin.com/in/tonicas>

- June 2016 **Linux User & Developer #166. *Imagine Publishing.***  
Debug Makefiles.  
<http://tinyurl.com/j3y329u>
- May 2016 **Linux User & Developer #165. *Imagine Publishing.***  
Turn a GNU/Linux Box into a Virtual Machine (VM).  
<http://tinyurl.com/zpxmrof>
- February 2016 **Linux User & Developer #162. *Imagine Publishing.***  
Identify false positives in your security analysis.  
<http://tinyurl.com/hbn5cmr>
- July 2015 **Linux User & Developer #155. *Imagine Publishing.***  
Debug your own Linux software like a pro.  
<http://tinyurl.com/qft2q87>
- February 2015 **Admin Magazine #25. *Linux New Media.***  
Secure Programming Techniques.  
<http://alturl.com/preview.php?id=oeqoq>
- 2012 **Bachelor thesis. *Universitat Oberta de Catalunya.***  
Context Switching Accounting Mechanism.  
<http://hdl.handle.net/10609/14872>
- 2011 **Todo Linux #125.**  
Debugging: Applying the Scientific Method.  
<http://disbauxes.upc.es/wp-content/uploads/2009/07/gdb.pdf>
- 2009 **VIII Jornades de Programari Lliure (VIII JPL).**  
Modifying a process File Descriptor Table (FDT) at runtime.  
<http://jpl.cpl.upc.edu/viii-jornades/comunicacions/modifying-a-process-file-descriptor-table-fdt-at-runtime/view>
- 2009 **Applied Physics Department, U.P.C..**  
GNU/Linux Kernel Basis.  
<http://disbauxes.upc.es/wp-content/uploads/2009/07/kbasis-applied-physics-department-upc.pdf>
- 2008 **Todo Linux #91.**  
Running 32 bit binaries on 64 bit architectures.  
<http://disbauxes.upc.es/wp-content/uploads/2009/07/tl-ia32.pdf>

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## Books

- August 2011 **Just Fiction! Edition.**  
Mum comes home twice a week and other stories. **ISBN 978-3-8454-4504-5**  
<https://www.justfiction-edition.com/catalog/details/store/gb/book/978-3-8454-4504-5/mum-comes-home-twice-a-week>