Pierre **Ciholas**

Cybersecurity specialist
Network & system administrator

Experience - (**10+** years)

PhD researcher, research assistant
Lancaster University - Current activity from July 2015

Currently working as a PhD researcher in the area of security specifically for Cyber Physical Systems (CPS). CPS examples include industrial control systems, critical national infrastructure, telecommunications, smart grid, ... My research project will focus on the design of a framework that will assess and aggregate vulnerabilities of CPS and then understand the combined "composite" vulnerabilities within such systems.

Software **dev**eloper, network & system **admin**istrator
FlyZone, Indoor SkyDiving – December 2011 to May 2013 (1 year, 6 months)

Developed the full structure's management application combining numerous programming languages. From the ticketing and booking system, management tools for the company's team to the application controlling the different physical elements operated by my own programmable logic controller such as cameras, camcorder or lights.

Administrator of internal and external networks and systems, also responsible of their security.

This ambitious project is to me a successful technical and personal challenge.

Network & system **admin**istrator
Ataraxie, Data centre & Web hosting – August 2007 to December 2011 (4 years, 5 months)

Responsible of the networks and systems as well as the physical aspect of the data centres. I was given autonomy to experiment and gain experience on the following technologies amongst many others:

- **Web services administration** (Mails, DNS, HTTP(S), FTP, SSL, databases, proprietary solutions ...)
- **Virtualisation solutions administration** (VMWare, Virtuozzo, Xen ...)
- **Operating systems administration** (Windows servers, various Linux distributions, BSD, proprietary systems …)
- **Benchmark and customisation of solutions** (Linux kernel, Apache, Nginx, Pg/MySQL ...)
- **Administration of specialised equipment** (routers, switches, APU, KVM ...)
- **Security solutions** (firewall, firewall-bridges, antivirus, antispam, various types of VPN, distributed backups ...)
- **Client and partners assistance** by remote control, telephone or interventions
- **Development and scripting** in numerous programming languages

This project is a milestone in my career and my personal development. It allowed me to take on ambitious challenges requiring the development of new sets of skills every time. It amplified my thirst for new challenges even more.

Cybercafé supervisor, network & system **admin**istrator
Cybercafé LeQG – August 2006 to August 2007 (1 year, 1 month)

This was my first professional experience which catalysed my enthusiasm to be an IT professional.

On the technical side of things, it allowed me to be responsible for my first network. This network, even modest, taught me to plan operations and use specialised tools for tasks like maintenance, monitoring, automation and many others.

Freelance worker and IT **blog**ger
Freelance worker since 2008 – IT blogger since 2003

I work as freelance worker on various projects from websites and online shop creation to photography or video montage.

During several years of my adolescence, I had a website to publish my IT papers and video guides with a strong community following me.

Education & training

PhD candidate – *Lancaster University, United Kingdom*
Research field: Security of Cyber Physical Systems

MSc Cybersecurity – *Lancaster University, United Kingdom*
Selected courses: Information System Penetration and Countermeasures - Forensic Investigation - Risk Management – Cybercrime - Introduction to Law - Network and System Security - Security and Conflict in the Digital Age

BSc (hons) in networking, wireless and security – *Toulouse-le-Mirail (Toulouse II) University, France*
Courses: Deployment, administration and security of corporate networks – High speed access technologies (xDSL, FTTH, WiFi, 3G/4G) – System administration – System & network virtualisation – VPN – Firewall layer 3, 4 & 7
French « Licence RSFS (Réseaux, Sans-Fil & Sécurité) »

HND in computing, networking and management – *CFA Blagnac, France*
French « Brevet de Technicien Supérieur en Informatique de Gestion »

A-levels in IT, computer networking and telecommunications – *CFAI LR, Montpellier, France*
French « Baccalauréat MRIM (Micro-informatique, Réseaux, Installation & Maintenance) »

GCSE in electrical and electronic engineering – *CFAI LR, Montpellier, France*
French « Brevet d'Etudes Professionnelle en électronique »

CCNA1 certification (Cisco Certified Network Administrator)

Other skills

Examples of IT related competences
- **Cybersecurity** (assessment, operations, procedures, best practices, policies ...)
- **IT Security** (firewalls, monitoring, VPN IPSec/SSL, VLAN, backups systems, advanced monitoring solutions...)
- **Network administration** (WAN, LAN, xDSL, Ehternet, IP, NAT, VRRP, BGP ...)
- **System administration** (Windows server, Linux distributions, BSD, proprietary systems ...)
- **IT Services administration** (servers DNS, HTTP(S), FTP, SSL, mails, Exchange ...)
- **Development** & web development skills (PHP, ASP, C, C++, Python, Perl, Java, standard HTML, CSS, AJAX ...)
- **Database** installation and management (MySQL, PostgreSQL, LDAP directories ...)
- **Full websites & shops** creation, with CMS such as Wordpress, Prestashop or Magento and adapatation if required

Being an organised fast learner with an enthusiastic and positive approach facing new challenges, I will autonomously and independently develop the required techniques to successfully achieve my projects meeting tight deadlines.

"If there is a problem, I will be a part of the solution."

Languages
French - Native
English - Bilingual proficiency
Spanish - Limited working proficiency

Contact & additional information

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Spare-time activities: Running, hiking, digital photography, parachutist & indoor skydiving, motorcycling, and last but not least, learning.