

Emmanuel CAILLÉ

*Objective : System Administrator or
Network Engineer*

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Year of birth : 1990

Education

- Sept 2013 – **Dublin City University, Ireland**, M.Eng in Telecommunications, *First Class Honours*.
Sept 2014
Network programming, Performance and QoS, Security and systems administration, Wireless and optical communications
- 2010 – 2014 **Telecom Bretagne, Brest, France**, Master of Engineering in Telecommunications. Network, Electronic, Optic, Computer Science, Signal Processing, Marketing, Management
- 2007 – 2010 **Post secondary school preparation in advanced Math and Sciences, France**. To prepare for competitive entrance examinations to French Graduate Engineering Schools
- 2007 **High school diploma in sciences, *summa cum laude***.

Experience

Internship

- Sept. 2013 – **IPSec connection with contextual ciphering, Orange Labs, Rennes, 5 months**.
April 2013 Building a mock-up with client, router, access-point and AAA server. Automatic adaptation of IPSec ciphering when http/https traffic is detected. Performance tests.
Keywords: OpenSwan (VPN), FreeRadius, Hostapd, 802.11, Snort, bash scripting
- March 2013 – **Deployment of a new international WAN, Rémy-Cointreau, Cognac, 7 months**.
August 2012 Request for proposal; international coordination to centralize existing information, define new technical parameters, validate new products; budget follow-up.
Keywords: Project management, firewall, LAN subnets, routing, tests and deployment
- August 2011 **Early development of an UMTS scanner, Telecom Bretagne, Brest, 1 month**.
Signal acquisition, first processing.

Societies

- Sept.2014 – **System administrator, Redbrick, DCU networking society, Ireland**.
Dec. 2013 Maintaining, upgrading and installing servers and services for members. ~5h/week
Keywords: Ubuntu server, FreeBSD, exim, nagios, ldap
- Sept. 2013 – **System administrator, ResEI, Telecom Bretagne networking society, France**.
Oct. 2010 Maintaining, upgrading and installing servers and services, providing Internet and associated services to 600 campus residents. ~10-15h/week
Keywords: Debian, postfix, bind, iptables, Cisco, OpenLDAP, PHP, svn, IPv4/IPv6, Xen, Nagios, Munin, user support and troubleshooting

Projects

- 2014 **Decision management in sensor networks**, *Master's Thesis in Dublin City University*, Ireland.
Data gathering and rule-programming in a decentralized Sensor Network. Literature review, design, implementation, tests. Using C++ on embedded Linux.
Keywords: C++, Boost Asio, TCP server/client, UDP broadcast
- 2012 **Building a robot for the Robotic French Cup**, *Telecom Bretagne*, Brest, France.
Design and assembly of the mechanical structure and electronic cards, C++ programming
- winter 2011 **WiFi deployment throughout 12 buildings**, *ResEI*, Brest.
Radio coverage, hotspots choice, authentication, implementation
- spring 2011 **Interconnection renewal between two networks**, *ResEI*, Brest.
New gateway, configuration of the firewall, DNS and routing, traffic separation
- spring 2011 **Room reservation and user management interface**, *Telecom Bretagne*, Brest.
Development of a PHP website, user management from ldap directory

Computer skills

GNU/Linux	Debian, ArchLinux, SUSE, iptables, OpenLDAP, Radius, MySQL, Postfix, Bind9, Xen, Nagios	Networking	IPv4, IPv6, TCP, Ethernet, OSPF, BGP, 802.11, ATM, Cisco, NS-3, Wireshark
Programming	C, C++, Boost, Java, Python, PHP, SQL, Bash	Various	LaTeX, MatLab, Solidworks

Languages

French	Mother tongue
English	Proficient user
Spanish	Competent user, European B2 level

Interests

- Societies 2011 president of ResEI, a society that provides Internet services to 600 students in Telecom Bretagne; 2012 president of a society that organize a big gaming (cards, role-play, board games) event in Telecom Bretagne.
- Robotics Member of robot building team for the "Coupe de France Robotique" (eurobot) in 2011 and 2012
- Others Photography, Meteorology, Drama (actor), Cinema, Astrophysics, Hiking, Climbing, Caving