

## Resume

# Edwin Cordeiro

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Brazilian und Portuguese

## Summary

PhD student specialized in Computer networks. Technical Evangelist with experience in teaching and motivating the usage of the IPv6 Protocol, participating in Internet Engineering Task Force (IETF) to contribute with Internet Protocols development. Customer facing expert capable to interact on technical and non-technical levels with strong demand creation skills. Developer of value propositions to meet customer requirements. Love to work with multiple teams with different priorities, like Sales and Engineering.

## Experience

Since **Senior Performance Engineer**, *Akamai Technologies*, Munich, Germany.

June 2017 Senior Performance Engineer for live and on demand media. Analysis of network and product performance based on key performance metrics to increase QoS and prevent service disruptions to customers of the globally distributed media infrastructure networks that support 10+ Million simultaneous users in big events like the Olympics or the FIFA World Cup. These analyses are based on large datasets collected from production networks and explored by custom internal solutions or with the usage of open source solutions, like Hadoop, Grafana, and Postgres.

Nov 2014 **Research Staff**, *Technical University Munich*, Munich, Germany.

May 2017 Researcher at the Chair for Network Architectures and Services as part of my PhD studies with a scholarship from the German Academic Exchange Service (DAAD). Research related to Routing Protocols, Network Quality of Service (QoS), Interface to the Routing System (I2RS), Network Congestion Detection and Avoidance.

Jan 2012 **Senior Project Analyst**, *NIC.br*, São Paulo, Brazil.

Nov 2014 IPv6 Evangelist at IPv6.br Project. Teacher at IPv6 courses for employees of Internet service and content providers. Worked in updating the didactic material, that became a published book. Research on IPv4 to IPv6 transition techniques and IPv6 Security, including lab tests (MAP-T, MAP-E, 464XLAT, NAT64 etc.) and contributions to IETF. Viability analysis of Software Defined Networks (SDN) to increase the capabilities of the Brazilian Internet Exchange Points (IXP.br).

Jan 2008 **Field Application Engineer**, *Avnet*, São Paulo, Brazil.

Sep 2011 Enablement of customer projects with Field-programmable Gate Array (FPGA) devices by developing and offering of VHDL courses.

Development and execution of a plan to increase the Xilinx FPGA customer base into new market segments in Brazil.

Similar initiatives for other manufactures like Freescale, Silicon Labs, Broadcom, PMC-Sierra, Applied Micro, Marvell, Intel and Texas Instruments. Supporting processors like ARM (7, 9, Cortex M3 and Cortex A8) and x86, programming languages (C/C++) and operating systems (Linux, uCLinux and Windows Embedded).

Responsible for a heterogeneous group of customers, but particularly in Telecom and Industrial segments.

Nov 2006 **Field Application Engineer**, *PI Componentes*, São Paulo, Brazil.

Nov 2007 Support existing and new customer projects.

Used existing material to teach new technologies like FPGA, ARM processors, GPS and GSM/GPRS modules, operating systems (Linux, Windows CE, uCLinux) and programming languages (C/C++ and Java). Worked with products from Digi, Altera, uBlox etc.

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- May 2006 **Trainee Software Developer**, *Innovatech Telecom*, Campinas, Brazil.
- Oct 2006 Development of a GSM Micro Base Station with GSM over VoIP. Responsible for the VoIP system that used ARM processors, uCLinux and C/C++. Worked with SIP and RTP protocols. Customization of the Linux kernel and device drivers to achieve high performance on a limited embedded system.
- Mar 2005 **Trainee Customer Support and Software Developer**, *UNICAMP*, Campinas, Brazil.
- Apr 2006 University's phone billing system maintenance and customer support at the Telephony Department. I implemented a system for automated phone billing generation and started the development of a telephone directory website for the University.
- Jan 2005 **Hardware Developer - Scientific Initiation**, *Brazil-IP Project*, Campinas, Brazil.
- Apr 2006 Development of MP3 ASIC chip up to the FPGA prototyping. Advised by Professor Guido Araújo - Instituto de Computação / UNICAMP. The FPGA prototype was presented in 2005 SBCCI Congress, Florianópolis, Brazil.

## Education

- 2015 **Technical University Munich**, *Doctor of Engineering, Network Architectures and Services*, Munich, Germany.
- 2020 (exp.)
- 2011 **Instituto de Pesquisas Tecnológicas**, *Master of Engineering, Computer Networks*, São Paulo, Brazil.
- 2014
- 2002 **Universidade Estadual de Campinas**, *Bachelor of Engineering, Computer Engineering*, Campinas, Brazil.
- 2006

## Publications

- 2015 **RFC 7703 – Experience from MAP-T Testing**, *IETF*, Author.  
Test results of a network that uses MAP-T dual translation technique. Overview of user applications' behavior with a shared IPv4 address.
- 2015 **Laboratório de IPv6**, *IPv6.br Project*, Coauthor.  
IPv6 teaching through the use of network emulators. It explains basic concepts, like Neighbor Discovery Protocol, application configuration, like WEB servers and proxy, security considerations, like firewall and DoS attacks, and IPv4 to IPv6 transition techniques.

## Languages

English: Bilingual proficiency (C2)	Portuguese: Native speaker
German: Good knowledge (B2)	Spanish: Good knowledge (B2)

## Skills & Abilities

Technical Evangelist	Value proposition and Demand Creation
Computer Networks	Processors and Microprocessors
Logical Circuits and FPGA	Embedded Systems
Programming Languages	Operating Systems
Key Performance Indicators	Large Systems

## References

Available Upon Request

## Interests

Learning how new technologies work	Judo
Video games	Embedded Systems

Munich, September 23, 2018

*Edwin S. Cordeiro*

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