

Leandro
Lisboa Penz

Contact

About me

Experience

Software
engineer

Embedded
software
architect

Leader of test
automation
team; embedded
software
architect

Leader of
embedded
software team

Embedded
software
developer

Education

MBA -
Organizational
Leadership and
Management

Master of
Science,
Computer
Science

Graduation,
Electrical
Engineering

Other courses

Languages

Misc

Leandro Lisboa Penz

lpenz@lpenz.org

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3 Experience

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Embedded software architect

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Email: lpenz@lpenz.org

Homepage: <http://www.lpenz.org>

LinkedIn: <https://linkedin.com/in/lpenz>

Lattes CV: <http://lattes.cnpq.br/0824061646899870>

GitHub: <https://github.com/lpenz>

Twitter: [@lpenz](#)

Stack Overflow: <https://stackoverflow.com/cv/lpenz>

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I'm currently working as an embedded software architect of DmOS — DATACOM's universal embedded OS. I focus on modularity, continuous integration, incremental qualification and DevOps. I work very closely with the DevOps team, bringing solutions and new technologies, and also helping in general.

I was one of the architects that worked on the initial definitions of the architecture, processes and tools used nowadays in the company. The architecture group itself was something new back then.

Before the creation of the architecture group, I led small (8) development teams. At first, I led teams of embedded software development for about 5 years, as I started as a developer myself. I then led the test infrastructure team for about a year

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while also acting as a software architect for the Ethernet switch product line.

I hold a master degree in computer science from UFRGS. My research line was on computer networks, distributed systems, fault tolerance and security. My dissertation was about distributed firewall rule coherence. I implemented the prototype checker in Haskell.

I hold an MBA on management and leadership from UNISINOS. I graduated in electrical engineering from UFRGS.

I value technical excellence, out-of-the-box thinking, generalism, strategic planning and long-term maintainability. I'm always looking for vulnerabilities and enhancement opportunities in my knowledge and tool set.

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Out of the professional context, I have studied and obtained a license to fly sailplanes. I can definitely say that I learned a lot from doing that, from the differences with my area (extreme risk aversion) as well as from the similarities (briefing/debriefing \sim sprint planning/review).

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Arista Networks Software engineer

2016 - present

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DATAKOM

Embedded software architect

2014 - 2016

Software architect of DATAKOM's embedded universal operating system: DmOS.

- Research and high-level definition the system architecture.
- Design of the overall development process.
- A lot of code review.
- Coding of some core modules.

Software architect assigned to DevOps.

- Initial tooling and structuring of the DevOps infrastructure.
- Definition of the DevOps process: homologation vs test vs production environments.
- Alignment of the infrastructure with DmOS's requirements.

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- Coding of some of the solutions.

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DATAKOM

Leader of test automation team; embedded software architect

2012 - 2014

Software Team Leader of Ethernet switch test automation team.

- Coordination of the team that was responsible for:
 - test development: in ruby;
 - test execution: 24/7, in sync with product integration;
 - test infrastructure maintenance: ~ 5 testbeds, most with Ethernet ring topologies.
- Backlog and defect prioritization.
- Agile methodologies.
- Performance evaluation, feedback.

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Software architect of DATACOM's Ethernet switch product line:

- Evaluation and implementation of static analysis tools.
- Development of debugging tools.
- Overall development process enhancements.
- I was also heavily involved with the design and implementation of tools that gathered data and generated development and defect metrics using python and django, full stack.

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DATAKOM

Leader of embedded software team

2007 - 2011

Software team leader of DATAKOM's NG-SDH Multiplexer product line.

- Coordination of distributed teams (~ 8, about half local, half remote) of embedded software developers.
- Guidance and reference in the development of solutions.
- Backlog and defect prioritization.
- Agile methodologies.
- Performance evaluation, feedback.
- A lot of code review.

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DATAKOM

Embedded software developer

2002 - 2007

Team member of the first NG-SDH Multiplexer developed in Brazil.

- Software development using the C language for embedded Linux systems: network servers, debug tools and drivers (kernel space).
- Unix server administration and maintenance.
- Script development (test automation) and scripting language extension: Lua, Python and TCL (Expect).

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Vale do Rio dos Sinos University (UNISINOS)

MBA - Organizational Leadership and Management

2012 - 2013

Subjects:

- Business management
- Project management
- Human resources
- Leadership
- Organizational identity and culture

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Federal University of Rio Grande do Sul (UFRGS) Master of Science, Computer Science

2006 - 2008

Orientation: Prof. Dr. Raul Fernando Weber

Research line: fault tolerance, network security and distributed systems.

Dissertation: Coherence in distributed packet filters
Formal definition of the concept of anomaly in isolated and distributed network packet filters through the use of graphs and set theory. Development of a prototype anomaly checker in Haskell.

Online: <http://www.lume.ufrgs.br/handle/10183/22813>

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Federal University of Rio Grande do Sul (UFRGS) Graduation, Electrical Engineering

1998 - 2002

The program is ranked among the top in Brazil, according to the evaluation process carried out by the CAPES agency of the Brazilian Ministry of Education.

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Pontifícia Universidade Católica - RS

Agile methodologies: project management with SCRUM

2009

Vale do Rio dos Sinos University (UNISINOS)

Software project management

2006

Study of PMI's PMBOK.

UFRGS - Data processing center

TCP/IP_{v4} routing - Internet high availability

2003

Focused on network routing protocols: RIP, OSPF and BGP.

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Portuguese: Native
English: Fluent
German: Basic

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- I installed my first Debian GNU/Linux at home in 2003, and never reinstalled it from scratch. I use the “testing” release, and update it constantly.
- I learned Haskell while developing the prototype of my MSc dissertation in 2006. Since then, I have used it on side projects and on programming contests when I have the chance.
- Even though I did not take computer science at graduation, I was 6th on the entry exam of the MSc at my University (UFRGS).
- I once got all questions right in a logical reasoning test. The psychologist that evaluated it said that she had never seen that before.

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- This CV is maintained at <http://github.com/lpenz/cv> with configuration management, automated tests and continuous deployment to <http://cv.lpenz.org> in several output formats.