João Paulo Pizani Flor

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Personal

Born on April 2nd, 1989.

Brazilian Citizen.

Passport number: CZ460656

Blog: `http://joaopizani.hopto.org` (English, Portuguese, German)

Formal Education

B.Sc. Computer Science, Federal University of Santa Catarina, 2011.

Graduation: July, 2011
Thesis: High-Level Synthesis of an Operating System Component in Hardware
Advisor: Prof. Dr. Antônio Augusto Fröhlich

Secondary Education, National Institute of Technology in Santa Catarina (IFSC), 2006.

Continuing Education

Utrecht Summer School in Computer Science, 2011

Full scholarship awarded by the University of Utrecht (Netherlands)
Topic: Applied Functional Programming in Haskell
Course hours: ~80 (3.0 ECTS credits)

Deutschlandkundlicher Winterkurs, Heinrich-Heine Universität Düsseldorf, 2010

Full scholarship awarded by the German Academic Exchange Service (DAAD)
Topic: German language and culture
Course hours: 150

Summer School in Mathematics, Federal University of Santa Catarina, 2008.

Topic: Real Analysis
Course hours: 50

Employment

C/C++ Systems Programming, 4S Broadcasting Systems, November 2011 – *current*.

URL: `http://www.4s.com.br` (Portuguese)

Research/Embedded Systems Development, Software/Hardware Integration Lab, 2010–2011.

URL: `http://www.lisha.ufsc.br` (English)

Research/Unix System Administration, PET Computação UFSC, 2007–2010.

URL: `http://pet.inf.ufsc.br` (Portuguese)

Languages

Mother tongue: Portuguese

Foreign languages

English	Understands well (29^1)	speaks well (29^1)	reads well (29^1)	writes well (28^1)
German	Understands well ($B2^2$)	speaks well ($B1^2$)	reads well ($B2^2$)	writes reasonably ($B1^2$)
French	Understands reasonably	speaks reasonably	reads reasonably	writes little

Notes:

(^{1}): TOEFL scores for each of the Listening, Speaking, Reading and Writing sections

(^{2}): TestDAF score, according to the Common European Framework for Languages

Conference Publications and Seminar Presentations

High-level Design and Synthesis of a Resource Scheduler

18th IEEE International Conference on Electronics, Circuits and Systems, Beirut, Lebanon, December, 2011.

Functional Programming and the Haskell Programming Language

2nd Annual Seminar of the PET Computação Group (Portuguese), Federal University of Santa Catarina, October, 2009.

Reconfigurable Computing: Investigating Some Fundamental Concepts

18th Annual National Conference of Scientific Initiation Research (Portuguese), Federal University of Santa Catarina, October, 2008.

Conferences and Workshops Attended

International Free Software Forum, Porto Alegre - RS, Brazil, June 30 – July 2, 2011.

4th Campus Party, São Paulo - SP, Brazil, January 17–22, 2011.

International Free Software Forum, Porto Alegre - RS, Brazil, July 22–25, 2010.

Miscellaneous/Portfolio

B.Sc Thesis: High-level Synthesis of an Operating System component in Hardware

Blog post: `http://joaopizani.hopto.org/en/2011/04/tcc`
Complete report: `http://joaopizani.hopto.org/graduacao/tcc.pdf` (Portuguese)

Haskell Parallel Image Processing: Using the Haskell Repa library for easy parallel array programming

Data-parallel edge detection algorithm implemented in Haskell
Blog post: `http://joaopizani.hopto.org/en/2011/06/haskell-parallel-image-processing`

Great Elegant VHDL Tutorial: A series of blog posts on how to design and test hardware blocks using VHDL, with insights about code readability and maintainability

Episode 0 (preamble): `http://joaopizani.hopto.org/en/2011/05/vhdl0`
Episode 1: `http://joaopizani.hopto.org/en/2011/06/vhdl1`
Episode 2: `http://joaopizani.hopto.org/en/2011/07/vhdl2`

Guitar2MIDI: Play your guitar and get a MIDI stream out of it!

Project developed as a lab assignment for the "Embedded Systems Laboratory" elective course
Blog post: `http://joaopizani.hopto.org/en/2010/07/guitar2midi`
Complete report: `http://www.inf.ufsc.br/~joaopizani/labmicro/projeto` (Portuguese)

Presto!: An esoteric programming language based on music. Scores are programs!

The interpreter is currently being developed by me using Haskell
Website: `http://launchpad.net/presto`

References

Prof. Dr. Antônio Augusto Fröhlich

B.Sc Thesis Advisor – previous employer
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Email: `guto@lisha.ufsc.br`

Prof. Dr. Jose Luís A. Güntzel

Researcher at Electronic Design Automation Lab (LAPS/UFSC) – B.Sc Thesis committee member
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`http://buscatextual.cnpq.br/buscatextual/visualizacv.jsp?id=K4205460Y4&idiomaExibicao=2`