Juliano Siloto Assine

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EDUCATION

UNICAMP
BsC in Computer Engineering
Jan 2016 | Campinas, SP

CORNELL UNIVERSITY
Ciencias sem Fronteiras
Exchange Program
Jan/Dec 2013 | Ithaca, NY

LINKS

Github:// **jsiloto**

RELEVANT COURSEWORK

GRADUATE
Multimedia Information Retrieval
Information Theory
Stochastic Processes
Smart Cities (audit)

UNDERGRADUATE
Digital Signal Processing
Artificial Intelligence
Operating Systems
Microcontroller Programming

SKILLS

PROGRAMMING
Experienced
C/C++ • Python • Matlab
Familiar:
Java • JavaScript • Shell • LaTeX

EXPERIENCE & RELEVANT PROJECTS

CPQD | Junior Researcher & Firmware Developer
Jan 2016 - Present | Campinas, SP
- Research on power-efficient Deep Learning techniques for mobile environments
- Firmware/Middleware development for IoT solutions
- Firmware development and implementation of real-time digital control for external cavity laser on μITLA applications.
- R&D on optimization heuristics for optical networking SDN applications [1, 2]
- Repository Maintenance

CPQD | Firmware Development Intern
Sep 2014 – Jan 2016 | Campinas, SP
- Driver Development for ROADM applications
- Application of population metaheuristics on optical channel shaping [3]

CORNELL ADVANCED MULTIMEDIA PROC. LAB | Summer Intern
Jun 2013 – Aug 2013 | Ithaca, NY
- Implementation of guided flight based on video input on a commercial quadricopter (Parrot ARDrone 2.0) using OpenCV on iOS.
- Advisor: Prof. Tsuhan Chen

UNICAMP INSTITUTE OF COMPUTING | Teaching Assistant
Mar 2011 – Jul 2011 | Campinas, SP
- MC102 – Algorithms and Computer Programming
- Instructor: Prof. Hans Liesenberg

Aug 2011 – Dec 2011 | Campinas, SP
- MC404 – Computer Organization and Assembly Language
- Instructor: Prof. Edson Borin

RELEVANT UNDERGRADUATE PROJECTS
- Undergraduate Thesis: Comparison of evolutionary algorithms applied to spectral shapping in optical channel transmission (*In Portuguese*).
- Class Project(ECE4760) – Ultrasonic Pathfinder: Prototype of a device to aid visually-impaired people. http://goo.gl/lY2n23

EXTRA-CURRICULAR

Graduation Comitee	Social Director	2010 – 2012
Student Union	Administrative / Social Director	2009 – 2011
Bateria Valorosa	Tamborim Player	2009 – 2012

PUBLICATIONS

[1] J. S. Assine, A. Bravalheri, et al. Sdn-enabled backpropagation correction for osnr estimation and optimization in under-monitored edfa-based optical links. In *ECOC 2016; 42nd European Conference on Optical Communication; Proceedings of*, pages 1–3. VDE, 2016.

[2] J. S. Assine, A. Bravalheri, et al. Simulation-based optimization of osnr on under-monitored edfa-based optical links using backpropagation correction. In A. Paradisi, editor, *Cognitive Technologies*. Springer, 2017.

[3] C. de AS Diniz, M. Garrich, G. J. Suzigan, J. S. Assine, J. D. Reis, J. R. de Oliveira, and D. A. Mello. Embedded system for optical spectral optimization based on a genetic algorithm. In *Microwave and Optoelectronics Conference (IMOC), 2015 SBMO/IEEE MTT-S International*, pages 1–4. IEEE, 2015.