

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
Smart Cities (audit)

UNDERGRADUATE

Digital Signal Processing
Artificial Intelligence
Operating Systems
Microcontroller Programming

SKILLS

PROGRAMMING

Experienced
C/C++ • Python • Matlab
Familiar:
C# • JavaScript • Shell • \LaTeX

EXPERIENCE & RELEVANT PROJECTS

CPQD | JUNIOR RESEARCHER & FIRMWARE DEVELOPER

Jan 2016 - Present | Campinas, SP

- Firmware/Middleware development for IoT solutions
- Development of real-time control for external cavity laser on μ ITLA 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/IY2n23>

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.