

Benjamin Sarti *May 23rd, 1990*

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Education

Universidade Estadual de Campinas

CAMPINAS, BRAZIL

Master of Electrical Engineering

Jul. 2014 – Dec. 2015

Nonlinear programming, Information theory, Optical links and Probability theory.

Dissertation title: "Field Calibration Procedure for Enhanced Automatic Gain Control of Distributed Counter-Propagating Raman Amplifiers."

École Centrale Marseille

MARSEILLE, FRANCE

Engineer's Degree (French *Diplôme d'Ingénieur* from a *Grande Ecole*) *Sept. 2010 – Nov. 2014*

Multidisciplinary formation in sciences, in engineering and in social sciences.

Universidade Estadual de Campinas

CAMPINAS, BRAZIL

Bachelor of Electrical Engineering

Jul. 2012 – Jul. 2014

Telecommunications, Electronics, Control Engineering and Power Engineering.

Experience

CPQD

CAMPINAS, BRAZIL

R&D Engineer

Aug. 2014 – May 2016

- *Optical amplifiers*: working in research and development (EDFAs and Raman amplifiers), laboratory automation for optical characterization and integration tests.
- *Tunable lasers*: built a laboratory setup for automated optical characterization.
- *Packaging for integrated photonics*: building a laboratory setup for automated free space alignment of polarization multiplexers.

Intern

Jul. 2013 – Aug. 2014

Optical networks: implemented dynamic equalization algorithms on CPqD's testbed.

Institut Fresnel

MARSEILLE, FRANCE

Intern

Jun. 2012 – Jul. 2012

Optimized the optical filtering in the long-wavelength infrared by studying the influence of geometrical parameters and material properties of plasmonic structures on their spectral response.

Skills

Computer skills: • Programming Languages: Python, MATLAB, LabVIEW, C and C++

• Operating Systems: Windows and Linux • Others: OptiSystem, L^AT_EX, Git, Jira, TestLink...

Natural languages: French (*mother language*), English (*advanced*: 870 points at TOEIC on March 2012), Portuguese (*advanced*) and Spanish (*intermediate*).

Publications and Patent application

• "Experimental demonstration of overshoot suppression for cascaded WSS-based ROADMs," in *Optical Fiber Communication Conference, Optical Society of America*, 2015.

• "Field calibration procedure for enhanced automatic gain control of distributed Raman amplifiers," in *2015 SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference, IEEE*, 2015.

• "Estimating EDFA output power with an efficient numerical modeling framework," in *International Conference on Communications, IEEE*, 2015.

• "Processo de Calibração em Campo dos Amplificadores Raman Distribuídos Contra-Propagantes para Operação no Modo de Controle Automático de Ganho," patent application, INPE, Brazil.