

Benjamin Sarti *May 23rd, 1990*

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Address: 88 Kailash Hills (2d floor), East of Kailash - 110065 New Delhi, India

Experience

Famoco

NEW DELHI, INDIA

IT Support Engineer

Jun. 2016 – Present

- Providing technical support on Android-based [NFC](#) devices for Famoco development in India, Sri Lanka and Bangladesh;
- Developed Android applications to interact with Famoco devices (NFC, connectivity, notifications, ...) for technical support and presales.

CPQD

CAMPINAS, BRAZIL

R&D Engineer

Aug. 2014 – May 2016

- *Optical amplifiers*: R&D on EDF and Raman amplifiers optimizing automatic gain control, noise figure and gain flatness in different topologies. Laboratory automation for optical characterization and integration tests.
- *Tunable lasers*: built a laboratory setup for automated optical characterization.
- *Packaging for integrated photonics*: build 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.

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*)

Sept. 2010 – Nov. 2014

Multidisciplinary formation in sciences (Mathematics, Physics); in engineering (Solid and Fluid Mechanics, Heat transfer, Chemistry, Electronics, ...) and in social sciences (Management, Economics, foreign languages,...).

Universidade Estadual de Campinas

CAMPINAS, BRAZIL

Bachelor of Electrical Engineering

Jul. 2012 – Jul. 2014

Telecommunications, Electronics, Control Engineering and Power Engineering.

Benjamin Sarti

Skills

Programming Languages: Python, MATLAB, LabVIEW, Java, XML, C and C++.

Operating Systems: Linux, Windows and Android.

Others: OptiSystem, L^AT_EX, Git, Jira, TestLink, Zoho....

Natural languages: Fluent in English, French and Portuguese. Intermediate in Spanish.

Publications

- J. Januario, M. G. Alabarce, **B. Sarti**, N. G. Gonzalez, and J. R. F. Oliveira, "[Experimental demonstration of overshoot suppression for cascaded WSS-based ROADMs](#)," in *Optical Fiber Communication Conference*, Los Angeles, Optical Society of America, pp. Tu3H-5., 2015.
 - **B. Sarti**, M. G. Alabarce, Benoît C. M. Roulle, Israel J. G. Cassimiro, Uiara C. Moura, J. R. F. Oliveira and Max H. M. Costa, "[Field calibration procedure for enhanced automatic gain control of distributed Raman amplifiers](#)," in *2015 SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference*, Porto de Galinhas, 2015.
 - Y. Fei, A. Fumagalli, M. G. Alabarce, **B. Sarti**, U. C. Moura, N. G. Gonzalez, and J. R. F. Oliveira, "[Estimating EDFA output power with an efficient numerical modeling framework](#)," in *International Conference on Communications*, London, IEEE, pp. 5222-5227, 2015.
 - **B. Sarti**, J. R. F. Oliveira, M. G. Alabarce, Uiara C. Moura, "Processo de calibração em campo dos amplificadores Raman distribuídos contra-propagantes para operação no modo de controle automático de ganho," INPE Brazil, patent application number BR 10 2015 011437-0, filed on May 2015.
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Other competences and interests

Tennis competitions: best French ranking: 15.

Music: 10 years of musical theory formation at Amnéville City music academy with validation of the 3 first cycles. Has been playing the trumpet for 7 years and played in several orchestras.

Others: fitness training, Japanese animations and board games.