

Benjamin Sarti

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

Objective

French Electrical and General Engineer **holding a Working Holiday Visa for New Zealand** and looking for a full-time job in systems or test engineering.

Experience

Famoco

NEW DELHI, INDIA

IT Support Engineer

Jun. 2016 – Present

Helping our clients to integrate their Android applications on NFC readers and to use our Mobile Device Management platform. Installing and testing the applications to collect and analyze the bugs and to propose solutions.

CPQD

CAMPINAS, BRAZIL

R&D Engineer

Aug. 2014 – May 2016

- **Optical amplifiers:** automated measuring instruments and optical subsystems using LabVIEW and Matlab to characterize EDF and Raman amplifiers. Performed integration tests (hardware + firmware) using command-line user interfaces.
- **Integrated Tunable Laser Assembly:** built a laboratory setup for automated optical characterization using Python and C.
- **Packaging for integrated photonics:** automated step motors using Python for free space alignment of polarization multiplexers.

Intern

Jul. 2013 – Aug. 2014

Optical networks: implemented dynamic channels equalization algorithms in C++ on CPqD's testbed. Controlled a cascade of optical nodes using multithreading.

Institut Fresnel

MARSEILLE, FRANCE

Intern

Jun. 2012 – Jul. 2012

Optimized the optical filtering of plasmonic structures using MATLAB.

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, engineering and social sciences.

Universidade Estadual de Campinas

CAMPINAS, BRAZIL

Bachelor of Electrical Engineering

Jul. 2012 – Jul. 2014

Telecommunications, Electronics, Control Engineering and Power Engineering.

Embedded systems: Programmed micro-controllers using Process Expert and Code Warrior. Built an digital-to-analog converter using a R-2R ladder and a Raspberry Pi.

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, MySQL, Confluence....

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 was a member of several orchestras.

Others: fitness training, Japanese animations and board games.