Gustavo O. Violato

Personal Data

Place and Date of Birth:	Curitiba, Brazil | 18 April 1986
Address:	R. Manoel Correia de Freitas - 1300, Curitiba/PR, Brazil
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Professional Goal

Contribute and learn from the design or development of engineering products with outstanding technological aggregated value. Work in a challenging and rewarding environment, with a team with freedom to discuss and exchange ideas.

Work Experience

Current / Dec 2010 — Engineer at Camargo-Schubert Engenheiros Associados, Curitiba-Brazil
Wind Engineering & Wind Resource Assessment
Wind Monitoring: planning of measurement campaigns; on-site equipment commissioning; analysis of measured wind data. **Resource Assessment**: micro-scale flow modelling; plant design and energy production estimation; uncertainty in wind resource. **Lidar systems**: planning of measurement campaigns; field commissioning; data analysis. **Aerodynamic design** of wind turbine blades. **Software development** for wind data collection, handling and analysis coupled with automatic report generation. General optimization of internal processes and workflows.

Jun 2009 / Aug 2008 — Intern at URI/DRONES - ENAC, Toulouse-France
Unmanned Aircraft Vehicles Simulation and Control
Assited in **control design, physical modelling and simulation** environments for research and development of UAVs. Developed a functional UAV system simulation environment. Designed and built a test bench for MicroUAVs dynamics identification. Acquired in field experience with flight tests.

Education

2012 — Master of Science in Aircraft Control, **Instituto Tecnológico de Aeronáutica**
São José dos Campos-Brazil, Major: Adaptive Control, Advisor: Prof. Pedro Paglione
Thesis: "Nonlinear, Adaptive Control System for Payload Extraction Operations"

dec 2009 — Bachelor's Degree in Aeronautical Engineering, **Instituto Tecnológico de Aeronáutica**
Thesis: "Review of Nonlinear Aircraft-Control Techniques" | Advisor: Pedro Paglione
Extra Curricular Courses on High Speed Aerodynamics, Astronautics and Celestial Mechanics

2008 — Exchange semester at **École Nationale de L'Aviation Civile (ENAC)**

dec 2003 — High-School at **Colégio Militar de Curitiba**

Publications & Awards

2013 — **G O Violato** and P Paglione. Nonlinear, adaptive control system for payload extraction operations. 22nd International Congress of Mechanical Engineering (COBEM 2013) November 3-7, 2013, Ribeirão Preto, SP, Brazil

2011 — J N Dias, **G O Violato**, and C A Martins. Dynamic model of a two-stroke glow engine from experimental data. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering December 2012 226: 1502-1512, first published on December 5, 2011

2009 — Best final year project from the Aeronautics Division - Instituto Tecnológico de Aeronáutica

Languages

Portuguese:	Read, Write, Speak (Native Speaker)	English:	Read, Write, Speak (Fluent)
French:	Read, Speak (Advanced)	Spanish:	Basic knowledge

Computer & Programming

Programming Languages:	Python, C, VBA
Scientific Programming:	Matlab, Scilab, NCL. Experience with NetCDF and HDF5 data formats.
Markup Languages:	HTML, XML, LaTeX
Computer usage:	Linux, Basic CAD & Finite-Element Modelling knowledge, MS Office Tools