

CONTACT
INFORMATION

Florianópolis, SC
Brazil

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EXPERIENCE

Neoway Business Solutions, Florianópolis, SC, Brazil

Research & Development, Programmer

December 2011 to Present

- Machine learning techniques for:
 - image processing and classification
 - data mining

Federal University of Santa Catarina, Florianópolis, SC, Brazil

R&D Project **DAS-UFSC/CENPES-Petrobras**

March 2010 to Present

- Condition based maintenance
- Signal processing
- Fault detection
- On-line monitoring system of well sensors

Federal University of Espírito Santo, Vitória, ES, Brazil

Intern at Intelligent Control Laboratory

September 2008 to February 2010

- Oscillation detection in control loops
- Fault detection of control valves
- LabView

Institutional Programs of Scientific Initiation

July 2007 to October 2008

- Numeric simulation of petroleum reservoir using the LibMesh

Intern at **PET Engenharia de Computação**

March 2006 to August 2008

- Involved actively on research, education and voluntary work activities
- Organization of scientific and student events
- Participation in local and national conferences

EDUCATION

Federal University of Santa Catarina, Florianópolis, SC, Brazil

M.S., Automation and System Engineering, 2010 – 2012 (expected)

- Topics: signal processing, fault detection and isolation, empirical modeling based on historical data, sensor drift
- R&D scholarship
- 1 paper published at international workshop on automatic control of offshore oil and gas production

Federal University of Espírito Santo, Vitória, ES, Brazil

B.S., Computer Engineering, 2005 – 2009

- PET scholarship
- Program of Scientific Initiation (PIVIC)
- Participation in 2 research projects
- 1 paper published and presented at international congress on computational methods in engineering
- 1 paper published at international conference on industry applications

EXTRA COURSES **Coursera**

- Machine Learning (Stanford University), April 2012 – July 2012 (overdue)

PUBLICATIONS	<p>[1] Boechat, Andre A.; Moreno, Ubirajara F.; Haramura, Decio, Jr., "On-Line Calibration Monitoring System Based on Data-Driven Model for Oil Well Sensors," in Proceedings of the IFAC Workshop on Automatic Control in Offshore Oil and Gas Production, Trondheim, Norway, 2012, pp. 269–274.</p> <p>[2] BOECHAT, A. A., MORENO, U. F. and TEIXEIRA, A. F. . PROPOSTA DE UMA ARQUITETURA DE MONITORAMENTO BASEADO NA CONDIÇÃO PARA APLICAÇÃO EM UNIDADES MARÍTIMAS DE PRODUÇÃO. VI Congresso Rio Automação, 2011, Rio de Janeiro. VI Congresso Rio Automação, 2011.</p> <p>[3] MUNARO, C. J. and BOECHAT, A. A. . Ambiente computacional baseado em Labview para detecção de oscilações em malhas de controle. IX Induscon - 2010 9th IEEE/IAS International Conference on Industry Applications, 2010, São Paulo. 2010 9th IEEE/IAS International Conference on Industry Applications, 2010.</p> <p>[4] BOECHAT, A. A. and VALLI, A. M. P. . Funcionalidades da biblioteca LibMesh na resolução de escoamento de fluidos pelo método dos elementos finitos. Congresso Ibero-Latino-Americano de Métodos Computacionais em Engenharia, 2009, Armação de Búzios. CILAMCE 2009 - Congresso Ibero-Latino-Americano de Métodos Computacionais em Engenharia, 2009.</p>
SKILLS	<p>Computer Programming Languages:</p> <ul style="list-style-type: none"> • C, C++, Clojure, Java, Lisp, Matlab, Octave, Haskell <p>Machine Learning and Statistics:</p> <ul style="list-style-type: none"> • linear regression, kernel regression, Support Vector Machines (SVM), clustering, statistical estimation, statistical detection <p>Instrumentation, Control, Data Acquisition, Test, and Measurement:</p> <ul style="list-style-type: none"> • Simulink, LabVIEW <p>Circuit Description:</p> <ul style="list-style-type: none"> • VHDL <p>Version Control:</p> <ul style="list-style-type: none"> • Git, SVN <p>Productivity Applications:</p> <ul style="list-style-type: none"> • T_EX (L^AT_EX, B_BT_EX), Vim <p>Operating Systems:</p> <ul style="list-style-type: none"> • Linux
AWARDS	<p>Postgraduate program in Automation and Systems Engineering</p> <ul style="list-style-type: none"> • R&D Scholarship <p>Federal University of Espírito Santo</p> <ul style="list-style-type: none"> • Scholarship
LANGUAGES	<p>Portuguese</p> <ul style="list-style-type: none"> • Native <p>English</p> <ul style="list-style-type: none"> • Reading: very good • Writing: good • Speaking: poor