

CONTACT INFORMATION	Florianópolis, SC Brazil	Mobile: +55-48-99091938 E-mail: boechat107@gmail.com WWW: sites.google.com/site/andreboechatpersonal
SUMMARY	<p>I have a great interest in the development of automation projects, including performance analysis of equipment and systems, process control, signal processing, data exploration and programming. In addition, I like to take part of projects involving elaborated algorithms, great programming skills, machine learning techniques, advanced mathematical and statistical knowledge and electronic systems.</p> <p>Specialties:</p> <ul style="list-style-type: none"> • Academic knowledge for modeling processes, process control and digital systems • Machine learning techniques for regression and classification • Advanced statistical knowledge • Solid programming knowledge: <ul style="list-style-type: none"> – different programming paradigms, like structured, object-oriented and functional programming – many different programming languages: C, C++, Java, Python, Clojure, Lisp, Haskell, Matlab, Assemble – experienced with complex algorithms and data structures implementation 	
EXPERIENCE	Neoway Business Solutions , Florianópolis, SC, Brazil	
	Research & Development, Programmer	December 2011 to Present
	<ul style="list-style-type: none"> • Machine learning techniques for: <ul style="list-style-type: none"> • image processing and classification • data mining 	
	Federal University of Santa Catarina , Florianópolis, SC, Brazil	
	R&D Project DAS-UFSC/CENPES-Petrobras	March 2010 to August 2012
	<ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • Oscillation detection in control loops • Fault detection of control valves • LabView 	
	Institutional Programs of Scientific Initiation	July 2007 to October 2008
	<ul style="list-style-type: none"> • Numeric simulation of petroleum reservoir using the LibMesh 	
	Intern at PET Engenharia de Computação	March 2006 to August 2008
	<ul style="list-style-type: none"> • 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

- 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

- [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.
- [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.
- [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.
- [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.

SKILLS

Computer Programming Languages:

- C, C++, Clojure, Java, Lisp, Matlab, Octave, Haskell

Machine Learning and Statistics:

- regression, classification, statistical detection, data exploration

Instrumentation, Control, Data Acquisition, Test, and Measurement:

- Simulink, LabVIEW

Circuit Description:

- VHDL

Version Control:

- Git, SVN

Productivity Applications:

- T_EX (L^AT_EX, B_BT_EX), Vim

Operating Systems:

- Linux

AWARDS

Postgraduate program in Automation and Systems Engineering

- R&D Scholarship

Federal University of Espírito Santo

- Scholarship

LANGUAGES

Portuguese

- Native

English

- Reading: very good
- Writing: good
- Speaking: poor

ADDITIONAL
INFORMATION

GitHub: github.com/boechat107