André Ambrósio Boechat   Curriculum vitae

INFORMAÇÕES DE CONTATO		
	Florianópolis, SC Brasil	Celular: +55-48-99091938 E-mail: boechat107@gmail.com WWW: sites.google.com/site/andreboechatpersonal

EXPERIÊNCIA

Neoway Business Solutions, Florianópolis, SC, Brazil

Pesquisa e Desenvolvimento, programador   **Dezembro de 2011 — Atualmente**

- Emprego de técnicas de aprendizado de máquina e análises estatísticas para:
  - processamento e reconhecimento de imagens
  - exploração de dados

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

[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:
- linear regression, kernel regression, Support Vector Machines (SVM), clustering, statistical estimation, statistical detection

Instrumentation, Control, Data Acquisition, Test, and Measurement:
- Simulink, LabVIEW

Circuit Description:
- VHDL

Version Control:
- Git, SVN

Productivity Applications:
- TEX (LATEX, BIBTEX), 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

WAGE EXPECTATION

R$ 6000,00 for 40 hours/week.