

# Rafael Gonçalves de Lima

---

## Adress

50 UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan, Republic of Korea, 689-798.  
rafael\_glima@hotmail.com

## Telephone

(+82) 10-2153-4050

## EDUCATION

### Bachelor in Electrical Engineering,

by Universidade Federal da Bahia, Salvador-BA March 2010- December 2014  
with an Emphasis in: Control/Power Systems

### Exchange Student - Science without Borders

Dept. Electrical Engineering  
POSTECH, Pohang - Republic of Korea August 2012- August 2013

### Master in Computer Engineering

Dept. Electrical and Computer Engineering  
UNIST, Ulsan - Republic of Korea August 2015 - August 2017 (expected)

## RESEARCH EXPERIENCE

### Research 08/2013-07/2014

Department of Electrical Engineering  
Universidade Federal da Bahia, Salvador

- Simulation and implementation of control techniques (Internal Model Control), focusing on the Filtered Smith Predictor.

### Research 03/2013-07/2013

Department of Electrical and Computer Engineering  
Pohang University of Science and Technology (POSTECH), South Korea

- Implementation of synchronization techniques for chaotic systems.

### Research 08/2011-07/2012

Department of Electrical Engineering  
Universidade Federal da Bahia, Salvador

- Simulation and Implementation of Convex Optimization techniques, as a mean to improve Parameter Estimation on Dynamical Systems.

## WORK EXPERIENCE

### Tutoring 08/2014-12/2014

Department of Electrical Engineering  
Universidade Federal da Bahia, Salvador

- Helped on the realization of laboratory experiments and projects by second year Electrical Engineering students.
- Office hours twice a week.

### Summer Internship 07/2013-08/2013

KR - Korean Register of Shipping, Survey Team, Busan - South Korea

- Completed a 7-week Summer Internship collaborating on the revision of regulating norms for construction and operation of ships and also visiting subcontractors.

**Winter Internship** 01/2013-02/2013  
Hyundai Rotem, *Outfitting Production Eng. Team*, Changwon - South Korea

- Completed a 5-week internship collaborating on projects of rolling stocks wirings, reviewing wiring lists and visiting subcontractors, besides elaborating and presenting a comprehensive guide of current brazilian railways' projects.

**Management** 08/2010-08/2011  
EletroJr, *Project Department*  
Universidade Federal da Bahia - Salvador

- Coordinated R&D-related activities inside the company, mainly related to a car-counter for the Polytechnic School's parking lot, focusing on the application of PMBOK (Project Management Body of Knowledge) concepts.
- Organized small and large-scale events (Trainee admission process, company's birthday, etc.)

**SEMINARS** **Control Systems** 10/2014  
**Automatic Tuning Techniques for the Robustness Filter of the Filtered Smith Predictor**  
*Presented at ACTA (Art, Science and Technology Week)*  
Universidade Federal da Bahia - Salvador

**PUBLICATIONS** **Control Systems** 12/2014  
**Study and Simulation of a Self-adjustable Robustness Filter for Dead-time Processes**  
*Bachelor Thesis*  
Universidade Federal da Bahia - Salvador

**Self-adjustable Robustness Filter for Dead-time Processes** 10/2015  
*Conference Paper*  
SBAI 2015 (*Brazilian Symposium on Intelligent Automation - Natal/RN*)

**EVENTS** **Conference** 05/2014  
**ISSNIP Biosignals and Biorobotics Conference: Biosignals and Robotics for Better and Safer Living (BRC)**  
*IEEE (Institute of Electrical and Electronics Engineers)*  
Salvador-BA, Brazil

**Workshop** 07/2013  
**Korea-Brazil Student Joint Workshop**  
*Organized by Brazilian Embassy in Seoul*  
Gyeongju - Republic of Korea

**COMPUTER SKILLS** Microsoft Office (Word, Excel, Powerpoint), AutoCAD, C/C++ programming, Matlab, MS Project, Android, LaTeX, Beamer, CSS, HTML, PHP

**IDIOMS** Portuguese (native), English (fluent/8.0 IELTS Score), French (intermediate), Korean (basic), German (intermediate)

**HONORS AND AWARDS** Lab Tutoring Scholarship (08/2014-12/2014)

Undergraduate Research Scholarship (02/2014-07/2014)

*Science without Borders* Exchange Student Scholarship (08/2012-08/2013)

Undergraduate Research Scholarship (07/2011-07/2012)

1st place, Admission Exams for Electrical Engineering Department (2010)

Silver Medal, National Astronomy Olympics (2006)

Silver Medal, State Chemistry Olympics (2006)