

# RODRIGO SCHMITT MEURER

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## EDUCATION

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### Federal University of Santa Catarina

Graduate Degree in Automation & Control Engineering

April 2011 - Present

*Florianópolis, Brazil*

### Leibniz Universität Hannover

Sandwich Degree in Electrical and Computer Engineering

September 2014 - August 2015

*Hannover, Germany*

## WORK EXPERIENCE

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### Software/Hardware Integration Lab, LISHA

*Researcher*

August 2015 - Present

*Florianópolis, Brazil*

- Main research topics: Embedded systems, Virtualization, Data Science and Internet of Things.
- Responsible for the Linux port to a real-time hypervisor (HyperEPOS).
- Responsible for the development of an adaptive context-aware system for the Internet of Things.
- Recipient of the internal productivity and proactivity award (2nd term of 2016)
- Publications:
  1. R. S. Meurer, M. K. Ludwig and A. A. Fröhlich, "Virtualizing Mixed-Criticality Operating Systems". In: 2016 VI Brazilian Symposium on Computing Systems Engineering, João Pessoa, 2016.

### Software/Hardware Integration Lab, LISHA

*Researcher*

September 2012 - February 2014

*Florianópolis, Brazil*

- Main research topics: Embedded Systems, Electronic System-level synthesis and High-level synthesis.
- Development of an AES hardware accelerator using the Unified Design methodology and High-level Synthesis
- Analysis of the impact of software on energy consumption using High-Level Synthesis
- Two-time recipient of the internal productivity and proactivity award (1st and 2nd terms of 2013).
- Publications:
  1. R. S. Meurer, T. R. Mück and A. A. Fröhlich, "An Implementation of the AES Cipher Using HLS". In: 2013 III Brazilian Symposium on Computing Systems Engineering, Niteroi, 2013, pp. 113-118.
  2. R. S. Meurer, "Synthesis of a Cryptographic Accelerator using FPGA." In: III Academic Week of Electric and Electronic Engineering (SAEEL,2013), Florianopolis/SC, Brazil

### Laboratory for Distributed Systems Research, LAPESD

*Volunteer*

February 2012 - August 2012

*Florianópolis, Brazil*

- Team Leader in the development of a Wireless Sensor Network with mobile nodes based on the IEEE 802.15.4 standard.

## COMMUNICATION SKILLS

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<b>Portuguese</b>	Native Language	
<b>English</b>	Proficient user	(TOEFL: 98 points, 2012)
<b>German</b>	Effective operational proficiency	(TestDaF: Level C1, 2015)

## TECHNICAL SKILLS

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<b>Programming Languages</b>	C/C++, Python, Bash, Java
<b>Web Programming</b>	HTML, PHP, CSS, JavaScript, JQuery
<b>Operating Systems &amp; Softwares</b>	Linux, Xen, Windows, Matlab, Simulink, Labview
<b>Protocols &amp; APIs</b>	JSON, REST, SciPy, Scikit-Learn, Keras, Flask
<b>Tools</b>	Git, SVN, Vim, GDB, QEMU, LaTeX