

# Ricardo RIBALDA DELGADO, PhD.

## PERSONAL DATA

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PLACE OF BIRTH: Zaragoza, Spain | 30 November 1983  
ADDRESS: Ryparken 67, 2 th. 2100 Copenhagen Ø, Denmark  
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## WORK EXPERIENCE

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Now JUNE 2008	<b>Lead Firmware Engineer QTECHNOLOGY A/S., Denmark</b> <i>Smart Cameras and Embedded Systems</i> Development of the firmware, kernel and low level user libraries for high performance Smart Cameras for the food industry. These cameras have been deployed in hundreds of locations around the world, and work at framerates up to 1000 fps. During this 5 years trip we have launched 5 products and bring up over 50 PCBs. This work has lead to contributions in the Linux Kernel, Das U-boot, Yocto Project (Open Embedded), flashrom and Gstreamer, among others
OCTOBER 2010 SEPTEMBER 2005	<b>Researcher HCTLAB Universidad Autónoma de Madrid, Spain</b> <i>Industrial Computing, Biometry and Robotics</i> Development of state of the art industrial computing systems like: 3D fingerprint sensors for 1 and 10 fingers (for TBS, Switzerland), Access control with smartcards (for UAM), Road Monitoring (for FCC), Qualifications notifications (for UAM), and Automatic Sales of Bus Tickets (deBlas).
SUMMER 2009	<b>Visitor Researcher FORSCHUNGSZENTRUM JÜLICH, Germany</b> <i>Scientific Computing and Profile-guided optimization</i> Optimization of Low Level processing stages of the GLORIA high altitude spectrometer. My contributions lead to a process speedup of more than 200x, allowing the processing of the spectrometer's data in real time.

## EDUCATION

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NOVEMBER 2015	<b>PhD in COMPUTER ENGINEERING AND TELECOMMUNICATIONS</b> <b>Universidad Autónoma, Madrid, Spain</b> Dissertation: "An Innovative Vision System for Industrial Applications" Supervisor: Prof. Javier GARRIDO SALAS GRADE: Doctor Europaeus Cum Laude
JUNE 2007	<b>Master of Advanced Studies in COMPUTER ENGINEERING AND TELECOMMUNICATIONS</b> <b>Universidad Autónoma, Madrid, Spain</b> Dissertation: "Intelligent and reconfigurable architecture for remote image processing applications based on an FPGA with Linux" Supervisor: Prof. Javier GARRIDO SALAS GRADE: Sobresaliente (10/10)
JUNE 2005	<b>Master in COMPUTER ENGINEERING</b> <b>Universidad Autónoma, Madrid, Spain</b> Internship: University Research Lab GRADE: Notable (8/10)

## OTHER EDUCATION

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2014 High Level synthesis for FPGAs with Vivado HLS  
2012 OpenCL Training  
2010 Intensive VHDL and Xilinx Tools  
2009 Image Processing with FPGAs  
2003 Linux SysAdmin

## LANGUAGES

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SPANISH: Mother Tongue  
ENGLISH: Excellent (Spoken English at Work - C2)

## CONGRESS ATTENDANCE

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2017 Kernel Recipes  
2014 Linux Plumbers  
2013, 2017 Kernel Summit  
2011-2017 LinuxCon Europe  
2010-2017 Embedded Linux Conference Europe  
2007-2015 Chaos Communication Conference

## OPEN SOURCE CONTRIBUTIONS

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- *Linux Kernel*: -224 contributions merged, including a 9+ year old bug in the driver core.
- *Yocto project / Open Embedded*: 60 contributions. "Supporting Organization".
- *U-boot*: 47 contributions merged. Maintainer of Xilinx PowerPC boards.
- *libv4l2/v4l-utils*: 12 contributions.
- *flashrom*: First support for EEPROM memories.
- *Gstreamer instruments*: 12 contributions.
- *coreboot*: 6 contributions.

## SPEAKER AND TRAINER

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- 2016: Keynote Speaker: "The Small Potato Collider (or how to solve a multidisciplinary problem using a modular camera)", *NOBUGS2016*.
- 2016: Speaker: "Developing an Industrial Machine Vision Application using Mentor Embedded Linux on AMD R-series SOC with Qtechnology Cameras", *Mentor Webinars*.
- 2015: Speaker: "The art of counting potatoes with Linux", *Embedded Linux Europe*.
- 2005, 2006, 2007, 2008, Trainer: Structure and Technology of Computers II (Assembly), *Universidad Autónoma de Madrid*.
- 2007, 2008, 2009 y 2010, Trainer: Embedded Linux, *Electra Training*.
- 2007 y 2008: Teacher: Basic Robotics, *UAM*
- 2007: Speaker: OpenSource Development in the UAM, *AEI*
- 2006: Speaker: Cryptography in Linux *UAM Summer Courses*
- 2004: Speaker: Linux Introduction *Campus Party*
- 2002, 2003: Round Table Moderator: "OpenSource in the Public Administration" *Hispalinux Congress*

## OTHER ACHIEVEMENTS

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- 2015 Eudypula Challenge
- 2012 Winner of the Copenhagen Startup Weekend