

Leonardo Sandoval Gonzalez

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EDUCATION ♦ Instituto Nacional de Astrofísica, Óptica y Electrónica

MS in Computer Science. Thesis defended in January 2005.

♦ University of Guadalajara

Diploma in Computer Science, August 1998.

♦ Scholarships

- Mexican-French Scientific Agreement (ANUIES-ECOS). January – December 2003.
- Mexican Science Sponsor (CONACYT). January 2001 – December 2002.

WORK

♦ Linaro Limited

EXPERIENCE May 2020 – August 2023

- **Senior Software Engineer - Open Source - CodeLinaro** (Apr 23 – Aug 23)
Part of the core [CodeLinaro](#) team, lead the Git and CI/CD Repository migration from [Linaro Git](#) / [Linaro Jenkins](#) to [CodeLinaro Git](#), providing migration tools, documentation and support to Linaro teams.
- **Senior Software Engineer - Open Source - Qualcomm Landing** (Jan 22 – April 23)
Part of the Qualcomm Landing Team CI team, lead the CI/CD Migration from [Linaro Qualcomm Jenkins](#) into [CodeLinaro CI](#), the latter becoming the official CI/CD environment. The Qualcomm Landing team members are [top contributors](#) on the Linux project, where the CI/CD plays a key role on testing patches before becoming public.
- **Senior Software Engineer - Open Source - MbedTLS** (Oct 21 – Jan 22)
Lead the CI migration from [ARM](#) internal Jenkins instance into a public [Mbed TLS](#).
- **Senior Software Engineer - Open Source - Trusted Firmware-A** (May 20 – Jan 22)
Lead the CI migration of the [TF-A](#) project from an [ARM](#) internal Jenkins instance into a public instance [TF-A CI](#). Work found at [patch review page](#).

♦ Intel Corporation

February 2015 – May 2020

- **Integration Architect - Open Source - Intel Stacks** (Oct 18 – May 20)
Member of the [Software Stacks](#) team, providing specialized and optimized [ClearLinux](#) Software Reference Stacks. Lead two stacks as integration architect: [Data Analytic](#) and Media, from design to release.
- **Performance Software Engineer - Open Source - ClearLinux** (Dec 2017 – Oct 2018)
Member of the [ClearLinux](#) Performance Team. Activities included: Performance Package performance Monitoring and Low-level Routine Optimization. For the latter, contributions focused on the [GNU C library](#), adopting the [AVX2](#) technology for *strcmp* and *strcpy* string routines.

- **Senior Embedded Software Engineer - Open Source - Yocto Project** (February 2015 – December 2017)
Member of the Core [Yocto Project](#) Team, providing support for several sub-projects: [bitbake](#), [OpenEmbedded-Core](#) and [Poky](#). Initial maintainer of [Patchtest](#), a framework and test suite for OpenEmbedded Core Patches.
- ◇ **Freescale Semiconductor**
July 2012 – February 2015
 - **Embedded Software Engineer - Professional Services** (Apr 14 – Feb 15)
Board Support Package (BSP) development and support for [i.MX](#) Multimedia Processors. Direct support to US customers for the entire Software Stack: from bootloader up to the user-space, full Linux stack.
 - **Embedded Software Engineer - Field Application Engineer** (Jul 12 – Apr 14)
Customer support for customers located in the USA Central Region and México using [i.MX](#) Multimedia Processors, with main focus on issues raised from [meta-fsl-arm](#) BSP meta-layer. Key [member](#) of the Linux build system migration, supporting community users to transition from *ltib* to the Yocto Project.
- ◇ **Texas Instruments- Dextra Technologies**
August 2006 – June 2011
 - **Embedded Software Engineer - Open Source - GStreamer** (August 2007 – June 2011).
Camera and Video Encoder GStreamer plugin maintainer for the OMAP family processors. Plugins based on TI OpenMAX IL multimedia middle-ware layer.
 - **Embedded Software Engineer - Open Source - OpenMAX** (August 2006 – August 2007)
Software developer for the OpenMAX IL Camera component for OMAP2 family processors.
- ACADEMIC EXPERIENCE ◇ **Tecnológico de Monterrey campus Guadalajara**
August 2014 – November 2014
 - **Embedded Linux Course** (August 2014 – November 2014).
A *Embedded Linux Course* course imparted on the Department of Master of Electronic, covering all SW stack on a embedded Linux device
- RESEARCH EXPERIENCE ◇ **Tecnológico de Monterrey campus Monterrey**
August 2007 – January 2011
 - **Web programmer - Computer Science Department** (Part time, August 2009 – January 2011).
Design and implementation of an Second factor authentication system using browser User Agent. A functional prototype built and delivered to customer.
 - **Web programmer - Computer Science Department** (Full time, August 2007 – July 2008).
Design and implementation of a classification method for detecting intruders using keystrokes typing rhythm. The designed algorithm documented and delivered successfully to customer (Google).
- ◇ **Instituto Nacional de Astrofísica, Óptica y Electrónica**
August 2000 – December 2004
 - **Master thesis in Computer Astrophysics** (January 2001 – December 2004).
Comparison between Decay Times of Satellite Galaxies using *N*-body numerical simulations and a two-body motion equation with dynamical friction. Several galaxy density profiles were compared. Thesis partially done in Marseille, France
Advisors: Ivanio Puerari (INAOE, México) and Lia Athanassoula (Observatoire de Marseille, France).

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· **Scientific Programmer - Machine Learning** (August – December 2000). Comparison between two classification methods (k -nn and neural networks) using stellar spectra.

Advisor: Olac Fuentes (INAOE, México).

TALKS	<ul style="list-style-type: none">◇ Simulation of Decay Times of Satellite Galaxies using Semi-Analytical methods. Proceedings of The National Convention of Astronomy 2003. Instituto de Astronomía, UNAM.Authors: Leonardo Sandoval, Lia Athanassoula and Jorge Villa
SKILLS	<ul style="list-style-type: none">◇ Open Source development under the Linux ecosystem◇ Programming languages: Python, Bash, C, X86/ARCH64 assembler◇ CI/CD: Jenkins, Gitlab, Github◇ Linux Building Systems: bitbake (YP), buildroot◇ Linux Command Line Tools
LANGUAGES	<ul style="list-style-type: none">◇ Native Spanish◇ Fluent spoken/written English◇ Fair German. ZDaF (Zertifikat Deutsch als Fremdsprache) obtained in Goethe-Institut, Guadalajara, Jalisco, Mexico (1996-1998)
HOBBIES	<ul style="list-style-type: none">◇ Hiking, traveling, cooking, swimming, running, functional, amateur chess player◇ Reading: Technology books (array languages, system performance, low-level vectorization, parallel programming)◇ Meditation: Mindfulness
REFERENCE	Available on request.