Leonardo Sandoval Gonzalez

Rinconada Vallarta ext 4 int 2,
Colonia Ciudad Granja
Zapopan, Jalisco, México
ZIP 45010
(+52) 33 12 67 90 39
leo.san.gon@gmail.com

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
EXPERIENCE

◇ **Linaro Limited**
May 2020 – August 2023

· **Senior CI/CD 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 CI/CD Software Engineer - Open Source - Qualcomm** (Jan 22 – Apr 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 – Oct 21)
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.

⋄ **Dextra Technologies- Texas Instruments**
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).

· **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 ⋄ 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 ⋄ Open Source development under the Linux ecosystem

⋄ Programming languages: Python, Bash, C, X86-64/ARCH64 assembler

⋄ CI/CD: Jenkins, Gitlab, Github

⋄ Linux Building Systems: bitbake (YP), buildroot

⋄ Linux Command Line Tools

LANGUAGES ⋄ Native Spanish

⋄ Fluent spoken/written English

⋄ Fair **German**. ZDaF (Zertifikat Deutsch als Fremdsprache) obtained in Goethe-Institut, Guadalajara, Jalisco, Mexico (1996-1998)

HOBBIES ⋄ Hiking, traveling, cooking, swimming, running, functional, amateur chess player

⋄ Reading: Technology books (array languages, system performance, low-leve vectorization, parallel programming)

⋄ Meditation: Mindfulness

REFERENCE Available on request.