

# Curriculum Vitae

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Date of Birth	13 August 1987
Nationalities	Chilean, German
GitHub	<a href="https://git.io/vS4CG">https://git.io/vS4CG</a>
Website	<a href="https://www.lucioillanes.de/">https://www.lucioillanes.de/</a>
<b>Software development</b>	
Programming areas	Systems & network programming on Linux, *BSD & Windows
Languages and tools	C, Tcl, BSD & GNU development environments, gdb, Qemu; amd/x86 & MIPS assembler, C++, Lua, Python & WinDbg: some experience
<b>System administration</b>	
Platforms and servers	Debian/-derived Linux, Free/Net/OpenBSD, ircd-hybrid, nginx
Scripting and automation	Ansible, Bourne/Bash/Z shell, BSD rc, systemd, Perl, rsync
Roles and technologies	iptables & pf-based firewalls, IPsec & OpenVPN, LXC & cgroups, ZFS
<b>Project involvement</b>	
February 2016-ongoing	<b>midipix build: build/cross-compilation infrastructure for midipix, a POSIX/Linux-compatible development/runtime environment for Windows</b>
	<ol style="list-style-type: none"> <li>1. Automatically cross-builds ca. 150 packages covering the toolchain, runtime components &amp; 3rd party software.</li> <li>2. Written in reasonably portable Bourne shell, ca. 1500 SLOC, pragmatically modular.</li> <li>3. Flexible &amp; lightweight infrastructure - has proven itself towards maturity over the course of ca. 1 year.</li> </ol>
November 2016-December 2016	<b>Tcl TIP #458: design and implementation of epoll/kqueue support in the Tcl notifier on Linux/*BSD, resp. for Tcl, a high-level, general-purpose, interpreted, dynamic programming language (FlightAware bounty programme)</b>
	<ol style="list-style-type: none"> <li>1. Tcl's original event-based architecture based on select(2) had scalability and code complexity concerns.</li> <li>2. On Linux/*BSD, epoll/kqueue is now used instead, which eliminates a major bottleneck in event-heavy code.</li> <li>3. Code complexity was reduced as the code is no longer unnecessarily multi-threaded, without breaking multi-threaded Tcl or C code.</li> </ol>
<b>Work experience</b>	
2003	<b>Sasol Germany, Hamburg (Internship)</b>
Responsibilities/role	Internal help desk/support on Windows platforms
2002	<b>Compaq Computer Corporation, Hamburg (Internship)</b>
Responsibilities/role	Corporate customer support on OpenVMS platforms
<b>Languages (CEFR levels given are personal judgments unless specified otherwise)</b>	
Paternal language	Spanish (CEFR: C1)
Maternal language	German (CEFR: C1)
1st foreign language	English (CEFR: C1; at Colón Language Center Hamburg: A)
2nd foreign language	Classical Arabic, some dialects (CEFR: A2)
<b>Educational career</b>	
Degree(s) attained	<b>Mittlere Reife/MSA, equivalent to GCSE in the UK</b>
Sep. 2015-Jan. 2017	Deutsche Angestelltenakademie (MSA course)
Aug. 2001-Feb. 2004	Integrierte Gesamtschule Walddörfer, Hamburg