

Lucio Andrés Illanes Alborno

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| Email | Mobile phone number | Address | Nationality |
| lucio@lucioillanes.de | +49 1623 714 810 | Nagelsweg 16, 20097 Hamburg, Germany | Chilean, German |
| GitHub | Website | | |
| https://git.io/vS4CG | https://www.lucioillanes.de/ | | |

Software development

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|---------------------|---|
| 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 |

Systems engineering & system administration

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| 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 |

Project involvement

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| Feb. 2016-ongoing | midipix_build: build/cross-compilation infrastructure for midipix, a POSIX/Linux-compatible development/runtime environment for Windows |
| | <ol style="list-style-type: none">1. Automatically cross-builds ca. 300 packages covering the toolchain, runtime components & 3rd party software.2. Written in reasonably portable Bourne shell, ca. 1500 SLOC, pragmatically lightweight & modular. |
| Nov. 2016-Dec. 2016 | 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) |
| | <ol style="list-style-type: none">1. Tcl's original event-based architecture based on select(2) had scalability and code complexity concerns.2. On Linux/*BSD, epoll/kqueue is now used instead, which eliminates a major bottleneck in event-heavy code.3. Code complexity was reduced as the code is no longer unnecessarily multi-threaded, without breaking multi-threaded Tcl or C code. |

Languages (internally assessed unless otherwise noted)

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| 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) |

Educational career and life abroad

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| 2014-Jan. 2017 | Hamburg: in pursuit of secondary education Deutsche Angestelltenakademie: MSA (equiv. to GCSE in the UK) |
| 2013 | Northwestern Spain: Way of St. James |
| 2011 | Viña del Mar, Chile: freelancing IT jobs |
| 2005-2008 | Valparaíso & Santiago, Chile Studied Arabic & Spanish languages and cultures |
| 2003 | Sasol Germany, Hamburg (Internship) Internal help desk/support on Windows platforms |
| 2002 | Compaq Computer Corporation, Hamburg (Internship) Corporate customer support on OpenVMS platforms |
| 2001-2004 | Integrierte Gesamtschule Walddörfer, Hamburg |